Zacharias A Anastassi

List of Publications by Year in descending order

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36 1,432 18 33 g-index

38 38 38 38 38 164

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#	Article	IF	CITATIONS
1	An optimized Rungeâ \in Kutta method for the solution of orbital problems. Journal of Computational and Applied Mathematics, 2005, 175, 1-9.	1.1	177
2	Construction of an optimized explicit Runge–Kutta–Nyström method for the numerical solution of oscillatory initial value problems. Computers and Mathematics With Applications, 2011, 61, 3381-3390.	1.4	145
3	A parametric symmetric linear four-step method for the efficient integration of the Schrödinger equation and related oscillatory problems. Journal of Computational and Applied Mathematics, 2012, 236, 3880-3889.	1.1	141
4	A new family of symmetric linear four-step methods for the efficient integration of the SchrĶdinger equation and related oscillatory problems. Applied Mathematics and Computation, 2012, 218, 5370-5382.	1.4	126
5	Trigonometrically fitted Runge?Kutta methods for the numerical solution of the Schr�dinger equation. Journal of Mathematical Chemistry, 2005, 37, 281-293.	0.7	100
6	Two optimized symmetric eight-step implicit methods for initial-value problems with oscillating solutions. Journal of Mathematical Chemistry, 2009, 46, 604-620.	0.7	89
7	A Family of Exponentially-fitted Runge–Kutta Methods with Exponential Order Up to Three for the Numerical Solution of the Schrödinger Equation. Journal of Mathematical Chemistry, 2007, 41, 79-100.	0.7	86
8	An optimized explicit Runge-Kutta method with increased phase-lag order for the numerical solution of the SchrA¶dinger equation and related problems. Journal of Mathematical Chemistry, 2010, 47, 315-330.	0.7	69
9	A family of two-stage two-step methods for the numerical integration of the SchrĶdinger equation and related IVPs with oscillating solution. Journal of Mathematical Chemistry, 2009, 45, 1102-1129.	0.7	63
10	A symmetric eight-step predictor-corrector method for the numerical solution of the radial Schr \tilde{A} ¶dinger equation and related IVPs with oscillating solutions. Computer Physics Communications, 2011, 182, 1626-1637.	3.0	49
11	A NEW SYMMETRIC EIGHT-STEP PREDICTOR-CORRECTOR METHOD FOR THE NUMERICAL SOLUTION OF THE RADIAL SCHR×DINGER EQUATION AND RELATED ORBITAL PROBLEMS. International Journal of Modern Physics C, 2011, 22, 133-153.	0.8	49
12	A phase-fitted Runge–Kutta–Nyström method for the numerical solution of initial value problems with oscillating solutions. Computer Physics Communications, 2009, 180, 1839-1846.	3.0	42
13	SPECIAL OPTIMIZED RUNGE–KUTTA METHODS FOR IVPs WITH OSCILLATING SOLUTIONS. International Journal of Modern Physics C, 2004, 15, 1-15.	0.8	40
14	A NEW EIGHT-STEP SYMMETRIC EMBEDDED PREDICTOR-CORRECTOR METHOD (EPCM) FOR ORBITAL PROBLEMS AND RELATED IVPs WITH OSCILLATORY SOLUTIONS. Astronomical Journal, 2013, 145, 75.	1.9	39
15	An optimized explicit Runge–Kutta–Nyström method for the numerical solution of orbital and related periodical initial value problems. Computer Physics Communications, 2012, 183, 470-479.	3.0	31
16	A dispersive-fitted and dissipative-fitted explicit Runge–Kutta method for the numerical solution of orbital problems. New Astronomy, 2004, 10, 31-37.	0.8	27
17	A modified phase-fitted and amplification-fitted Runge-Kutta-Nyström method for the numerical solution of the radial Schrödinger equation. Journal of Molecular Modeling, 2010, 16, 1339-1346.	0.8	24
18	Trigonometrically fitted fifth-order runge-kutta methods for the numerical solution of the schr $ ilde{A}\P$ dinger equation. Mathematical and Computer Modelling, 2005, 42, 877-886.	2.0	23

#	Article	IF	CITATIONS
19	A trigonometrically fitted Runge–Kutta method for the numerical solution of orbital problems. New Astronomy, 2005, 10, 301-309.	0.8	20
20	A 6(4) optimized embedded Runge–Kutta–Nyström pair for the numerical solution of periodic problems. Journal of Computational and Applied Mathematics, 2015, 275, 311-320.	1.1	16
21	A family of Runge-Kutta methods with zero phase-lag and derivatives for the numerical solution of the SchrĶdinger equation and related problems. Journal of Mathematical Chemistry, 2009, 46, 1158-1171.	0.7	10
22	Explicit almost P-stable Runge–Kutta–Nyström methods for the numerical solution of the two-body problem. Computational and Applied Mathematics, 2015, 34, 647-659.	1.3	7
23	Spatiotemporal algebraically localized waveforms for a nonlinear Schrödinger model with gain and loss. Physica D: Nonlinear Phenomena, 2017, 355, 24-33.	1.3	7
24	A new symmetric linear eight-step method with fifth trigonometric order for the efficient integration of the SchrĶdinger equation. Applied Mathematics Letters, 2011, 24, 1468-1472.	1.5	6
25	A new methodology for the development of numerical methods for the numerical solution of the SchrĶdinger equation. Journal of Mathematical Chemistry, 2009, 46, 621-651.	0.7	5
26	Dark soliton scattering in symmetric and asymmetric double potential barriers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2514-2520.	0.9	5
27	Identifying Parkinson's Disease Through the Classification of Audio Recording Data. , 2020, , .		5
28	A NEW FAMILY OF MULTISTEP METHODS WITH IMPROVED PHASE-LAG CHARACTERISTICS FOR THE INTEGRATION OF ORBITAL PROBLEMS. Astronomical Journal, 2009, 138, 86-94.	1.9	4
29	Efficient Computation of the Nonlinear SchrĶdinger Equation with Time-Dependent Coefficients. Mathematics, 2020, 8, 374.	1.1	4
30	High order multistep methods with improved phase-lag characteristics for the integration of the SchrĶdinger equation. Journal of Mathematical Chemistry, 2009, 46, 692-725.	0.7	2
31	A new methodology for the construction of numerical methods for the approximate solution of the SchrĶdinger equation. Journal of Mathematical Chemistry, 2009, 46, 652-691.	0.7	1
32	High order phase fitted multistep integrators for the SchrĶdinger equation with improved frequency tolerance. Journal of Mathematical Chemistry, 2009, 46, 1009-1049.	0.7	1
33	Symposium on the Numerical Solution of Differential Equations and their Applications. , 2008, , .		0
34	Some Symmetric Linear Four-Step Methods for the Numerical Solution of Oscillatory Initial Value Problems. , 2011 , , .		0
35	A Fitted Runge-Kutta-Nystrol^m Method with Six Stages for the Integration of the Two-Body Problem. , 2011, , .		0
36	A Neural Network for Interpolating Light-Sources. , 2020, , .		0