Yonglei Fang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5084152/publications.pdf

Version: 2024-02-01

		1163117	794594
31	373	8	19
papers	citations	h-index	g-index

31	31	31	92
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Explicit pseudo two-step exponential Rungeâ€“Kutta methods for the numerical integration of first-order differential equations. Numerical Algorithms, 2021, 86, 1143-1163.	1.9	3
2	Optimized pairs of multidimensional ERKN methods with FSAL property for multi-frequency oscillatory systems. International Journal of Computer Mathematics, 2021, 98, 1309-1326.	1.8	0
3	Two-frequency trigonometrically-fitted and symmetric linear multi-step methods for second-order oscillators. Journal of Computational and Applied Mathematics, 2021, 392, 113312.	2.0	2
4	An explicit trigonometrically fitted Rungeâ€“Kutta method for stiff and oscillatory problems with two frequencies. International Journal of Computer Mathematics, 2020, 97, 85-94.	1.8	1
5	Modified THDRK methods for the numerical integration of the SchrÃ¶dinger equation. International Journal of Modern Physics C, 2020, 31, 2050149.	1.7	1
6	Obrechkoff two-step method fitted with Fourier spectrum for undamped Duffing equation. Journal of Mathematical Chemistry, 2020, 58, 717-734.	1.5	0
7	Symmetric collocation ERKN methods for general second-order oscillators. Calcolo, 2019, 56, 1.	1.1	2
8	THDRK methods with vanished phase-lag and its first derivative for the SchrÃ¶dinger equation. Journal of Mathematical Chemistry, 2019, 57, 1496-1507.	1.5	5
9	A new embedded 4(3) pair of modified two-derivative Rungeâ€“Kutta methods with FSAL property for the numerical solution of the SchrÃ¶dinger equation. Journal of Mathematical Chemistry, 2019, 57, 1413-1426.	1.5	2
10	A new family of A-stable Runge-Kutta methods with equation-dependent coefficients for stiff problems. Numerical Algorithms, 2019, 81, 1235-1251.	1.9	3
11	Exponentially fitted symmetric and symplectic DIRK methods for oscillatory Hamiltonian systems. Journal of Mathematical Chemistry, 2018, 56, 1130-1152.	1.5	1
12	Efficient implementation of RKN-type Fourier collocation methods for second-order differential equations. Applied Numerical Mathematics, 2017, 119, 164-178.	2.1	46
13	Rungeâ€“Kuttaâ€“NystrÃ¶m methods with equation dependent coefficients and reduced phase lag for oscillatory problems. Journal of Mathematical Chemistry, 2017, 55, 259-277.	1.5	0
14	Revised trigonometrically fitted two-step hybrid methods with equation dependent coefficients for highly oscillatory problems. Journal of Computational and Applied Mathematics, 2017, 318, 266-278.	2.0	6
15	Novel phase-fitted symmetric splitting methods for chemical oscillators. Journal of Mathematical Chemistry, 2017, 55, 238-258.	1.5	2
16	Novel Exponentially Fitted Two-Derivative Runge-Kutta Methods with Equation-Dependent Coefficients for First-Order Differential Equations. Discrete Dynamics in Nature and Society, 2016, 2016, 1-6.	0.9	1
17	Order conditions for RKN methods solving general second-order oscillatory systems. Numerical Algorithms, 2014, 66, 147-176.	1.9	31
18	A new embedded 5(3) pair of modified Rungeâ€“Kuttaâ€“NystrÃ¶m methods for the numerical solution of the SchrÃ¶dinger equation. Journal of Mathematical Chemistry, 2014, 52, 1081-1098.	1.5	1

#	Article	IF	Citations
19	New optimized two-derivative Runge-Kutta type methods for solving the radial SchrÃ¶dinger equation. Journal of Mathematical Chemistry, 2014, 52, 240-254.	1.5	7
20	Special extended NystrÃ¶m tree theory for ERKN methods. Journal of Computational and Applied Mathematics, 2014, 263, 478-499.	2.0	11
21	A new modified embedded 5(4) pair of explicit Rungeâ€“Kutta methods for the numerical solution of the SchrÃ¶dinger equation. Journal of Mathematical Chemistry, 2013, 51, 937-953.	1.5	8
22	A new phase-fitted modified Rungeâ€“Kutta pair for the numerical solution of the radial SchrÃ¶dinger equation. Applied Mathematics and Computation, 2013, 224, 432-441.	2.2	5
23	New explicit adapted Numerov methods for second-order oscillatory differential equations. Applied Mathematics and Computation, 2013, 219, 6241-6255.	2.2	6
24	EXPONENTIALLY FITTED TWO-DERIVATIVE RUNGEâ€“KUTTA METHODS FOR THE SCHRÃ–DINGER EQUATION. International Journal of Modern Physics C, 2013, 24, 1350073.	1.7	10
25	Extended RKN methods with FSAL property for oscillatory systems. Computer Physics Communications, 2010, 181, 1538-1548.	7.5	2
26	New Runge-Kutta Method for Stiff Oscillatory Problems with Two Frequencies. , 2009, , .		1
27	Extended RKN-type methods for numerical integration of perturbed oscillators. Computer Physics Communications, 2009, 180, 1777-1794.	7.5	78
28	Trigonometrically fitted explicit Numerov-type method for periodic IVPs with two frequencies. Computer Physics Communications, 2008, 179, 801-811.	7.5	19
29	A trigonometrically fitted explicit Numerov-type method for second-order initial value problems with oscillating solutions. Applied Numerical Mathematics, 2008, 58, 341-351.	2.1	87
30	A new pair of explicit ARKN methods for the numerical integration of general perturbed oscillators. Applied Numerical Mathematics, 2007, 57, 166-175.	2.1	32
31	A novel class of explicit two-step Birkhoff-Hermite integrators for highly oscillatory second-order differential equations. International Journal of Computer Mathematics, 0, , 1-20.	1.8	0