Abbas Ali Shokri

List of Publications by Year
in descending order

38 papers	1,055 citations	933447 10 h-index	414414 32 g-index
41 all docs	41 docs citations	41 times ranked	506 citing authors

#	Article	IF	Citations
1	On the boundedness stepsizes-coefficients of A-BDF methods. AIMS Mathematics, 2022, 7, 1562-1579.	1.6	1
2	A Nonstandard Finite Difference Method for a Generalized Black–Scholes Equation. Symmetry, 2022, 14, 141.	2.2	4
3	Subordination Method for the Estimation of Certain Subclass of Analytic Functions Defined by the q-Derivative Operator. Journal of Function Spaces, 2022, 2022, 1-9.	0.9	2
4	A Positivity-Preserving Improved Nonstandard Finite Difference Method to Solve the Black-Scholes Equation. Mathematics, 2022, 10, 1846.	2.2	2
5	Variable Step Hybrid Block Method for the Approximation of Kepler Problem. Fractal and Fractional, 2022, 6, 343.	3.3	17
6	Solution of the Ill-Posed Cauchy Problem for Systems of Elliptic Type of the First Order. Fractal and Fractional, 2022, 6, 358.	3.3	3
7	Second Derivative Block Hybrid Methods for the Numerical Integration of Differential Systems. Fractal and Fractional, 2022, 6, 386.	3.3	3
8	On an Approximate Solution of the Cauchy Problem for Systems of Equations of Elliptic Type of the First Order. Entropy, 2022, 24, 968.	2.2	4
9	A new implicit high-order six-step singularly P-stable method for the numerical solution of Schrödinger equation. Journal of Mathematical Chemistry, 2021, 59, 224-249.	1.5	4
10	A positive and elementary stable nonstandard explicit scheme for a mathematical model of the influenza disease. Mathematics and Computers in Simulation, 2021, 182, 397-410.	4.4	25
11	Numerical simulation of second-order initial-value problems using a new class of variable coefficients and two-step semi-hybrid methods. Simulation, 2021, 97, 347-364.	1.8	0
12	A Singularly P-Stable Multi-Derivative Predictor Method for the Numerical Solution of Second-Order Ordinary Differential Equations. Mathematics, 2021, 9, 806.	2.2	3
13	Qualitatively Stable Nonstandard Finite Difference Scheme for Numerical Solution of the Nonlinear Black–Scholes Equation. Journal of Mathematics, 2021, 2021, 1-12.	1.0	6
14	Fourth derivative singularly P-stable method for the numerical solution of the Schrödinger equation. Advances in Difference Equations, 2021, 2021, .	3.5	1
15	Nonstandard Finite Difference Schemes for an SIR Epidemic Model. Mathematics, 2021, 9, 3082.	2.2	10
16	A new implicit six-step P-stable method for the numerical solution of Schrödinger equation. International Journal of Computer Mathematics, 2020, 97, 802-817.	1.8	10
17	An explicit six-step singularly P-stable Obrechkoff method for the numerical solution of second-order oscillatory initial value problems. Numerical Algorithms, 2020, 84, 871-886.	1.9	3
18	Numerical study of the two-term time-fractional differential equation using the Lagrange polynomial pseudo-spectral method. AEJ - Alexandria Engineering Journal, 2020, 59, 3163-3169.	6.4	4

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19	The new class of multistep multiderivative hybrid methods for the numerical solution of chemical stiff systems of first order IVPs. Journal of Mathematical Chemistry, 2020, 58, 1987-2012.	1.5	6
20	An efficient fourâ€step multiderivative method for the numerical solution of secondâ€order IVPs with oscillating solutions. Computational and Mathematical Methods, 2020, 2, e1116.	0.8	1
21	A new family of explicit linear two-step singularly P-stable Obrechkoff methods for the numerical solution of second-order IVPs. Applied Mathematics and Computation, 2020, 376, 125116.	2.2	0
22	A new four-step P-stable Obrechkoff method with vanished phase-lag and some of its derivatives for the numerical solution of radial SchrÃ¶dinger equation. Journal of Computational and Applied Mathematics, 2019, 354, 569-586.	2.0	9
23	A new family of three-stage two-step P-stable multiderivative methods with vanished phase-lag and some of its derivatives for the numerical solution of radial SchrÃ¶dinger equation and IVPs with oscillating solutions. Numerical Algorithms, 2019, 80, 557-593.	1.9	6
24	A new class of two-step P-stable TFPL methods for the numerical solution of second-order IVPs with oscillating solutions. Journal of Computational and Applied Mathematics, 2019, 354, 551-561.	2.0	2
25	A new eight-order symmetric two-step multiderivative method for the numerical solution of second-order IVPs with oscillating solutions. Numerical Algorithms, 2018, 77, 95-109.	1.9	13
26	A new efficient implicit four-step method with vanished phase-lag and some of its derivatives for the numerical solution of the radial SchrÃ¨odinger equation. Journal of Modern Methods in Numerical Mathematics, 2017, 8, 77.	0.3	2
27	A moving Krigingâ€based MLPG method for nonlinear Kleinâ€"Gordon equation. Mathematical Methods in the Applied Sciences, 2016, 39, 5381-5394.	2.3	11
28	On the first- and second-order strongly monotone dynamical systems and minimization problems. Optimization Methods and Software, 2015, 30, 1303-1309.	2.4	1
29	High phase-lag order trigonometrically fitted two-step Obrechkoff methods for the numerical solution of periodic initial value problems. Numerical Algorithms, 2015, 68, 337-354.	1.9	11
30	The Structure of Maximal Ideal Space of Certain Banach Algebras of Vector-valued Functions. Kyungpook Mathematical Journal, 2014, 54, 189-195.	0.3	0
31	Trigonometrically fitted high-order predictorâ€"corrector method with phase-lag of order infinity for the numerical solution of radial SchrÃ¶dinger equation. Journal of Mathematical Chemistry, 2014, 52, 1870-1894.	1.5	12
32	The new class of implicit <mml:math altimg="si2.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.el. Computer P	7.5	9
33	A new two-step P-stable hybrid Obrechkoff method for the numerical integration of second-order IVPs. Journal of Computational and Applied Mathematics, 2011, 235, 1706-1712.	2.0	9
34	A meshless method using the radial basis functions for numerical solution of the regularized long wave equation. Numerical Methods for Partial Differential Equations, 2010, 26, 807-825.	3.6	65
35	A Not-a-Knot meshless method using radial basis functions and predictorâ€"corrector scheme to the numerical solution of improved Boussinesq equation. Computer Physics Communications, 2010, 181, 1990-2000.	7.5	90
36	Numerical solution of the nonlinear Kleinâ€"Gordon equation using radial basis functions. Journal of Computational and Applied Mathematics, 2009, 230, 400-410.	2.0	267

3

#	Article	IF	Citations
37	A numerical method for solution of the two-dimensional sine-Gordon equation using the radial basis functions. Mathematics and Computers in Simulation, 2008, 79, 700-715.	4.4	334
38	A numerical method for KdV equation using collocation and radial basis functions. Nonlinear Dynamics, 2007, 50, 111-120.	5.2	100