

# Jafar Biazar, JBiazar

## List of Publications by Year in descending order

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124  
papers

2,974  
citations

159585

30  
h-index

197818

49  
g-index

126  
all docs

126  
docs citations

126  
times ranked

1337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical solution for system of nonlinear volterra integral equation of the first kind via MOHAM. AIP Conference Proceedings, 2022, , .	0.4	0
2	Perturbed Galerkin Method for Solving Integro-Differential Equations. Journal of Applied Mathematics, 2022, 2022, 1-8.	0.9	0
3	Theory and numerical approaches of high order fractional Sturmâ€“Liouville problems. Turkish Journal of Mathematics, 2021, 45, 1564-1579.	0.7	0
4	Applications of OHAM and MOHAM for Fractional Seventh-Order SKI Equations. Journal of Applied Mathematics, 2021, 2021, 1-8.	0.9	2
5	Fractional modeling for prey and predator problem by using optimal homotopy asymptotic method. International Journal of Applied Mathematical Research, 2020, 9, 35-40.	0.2	1
6	The Fractional Differential Model of HIV-1 Infection of CD4<sup>+</sup>T-Cells with Description of the Effect of Antiviral Drug Treatment. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-12.	1.3	18
7	Optimal Homotopy Asymptotic and Multistage Optimal Homotopy Asymptotic Methods for Solving System of Volterra Integral Equations of the Second Kind. Journal of Applied Mathematics, 2019, 2019, 1-17.	0.9	7
8	Mellin transform and conformable fractional operator: applications. SeMA Journal, 2019, 76, 203-215.	2.0	3
9	Solution of weakly singular fractional integro-differential equations by using a new operational approach. Journal of Computational and Applied Mathematics, 2019, 352, 453-477.	2.0	18
10	Resonant solitons to the nonlinear SchrÃ¶dinger equation with different forms of nonlinearities. Optik, 2018, 164, 201-209.	2.9	26
11	The first integral method for solving some conformable fractional differential equations. Optical and Quantum Electronics, 2018, 50, 1.	3.3	32
12	A class of Rungeâ€“Kutta methods for nonlinear Volterra integral equations of the second kind with singular kernels. Advances in Difference Equations, 2018, 2018, .	3.5	4
13	General solution of second order fractional differential equations. International Journal of Applied Mathematical Research, 2018, 7, 56-61.	0.2	7
14	Analytical study of exact traveling wave solutions for time-fractional nonlinear SchrÃ¶dinger equations. Optical and Quantum Electronics, 2018, 50, 1.	3.3	16
15	Lie symmetry analysis for the solution of first-order linear and nonlinear fractional differential equations. International Journal of Applied Mathematical Research, 2018, 7, 37-41.	0.2	5
16	Analytic approximation of Volterraâ€™s population model. Journal of Applied Mathematics, Statistics and Informatics, 2017, 13, 5-17.	0.2	3
17	An interval for the shape parameter in radial basis function approximation. Applied Mathematics and Computation, 2017, 315, 131-149.	2.2	28
18	Analytical solutions for conformable fractional Bratu-type equations. International Journal of Applied Mathematical Research, 2017, 7, 15-19.	0.2	9

#	ARTICLE	IF	CITATIONS
19	Selection of an Interval for Variable Shape Parameter in Approximation by Radial Basis Functions. <i>Advances in Numerical Analysis</i> , 2016, 2016, 1-11.	0.2	9
20	Implementation of multi-step differential transformation method for hyperchaotic Rossler system. <i>International Journal of Applied Mathematical Research</i> , 2016, 6, 4-6.	0.2	0
21	Redistribution of Nodes with Two Constraints in Meshless Method of Line to Time-Dependent Partial Differential Equations. <i>International Journal of Differential Equations</i> , 2015, 2015, 1-8.	0.8	0
22	Numerical Solution of Riccati Equations by the Adomian and Asymptotic Decomposition Methods over Extended Domains. <i>International Journal of Differential Equations</i> , 2015, 2015, 1-7.	0.8	2
23	A modified Adomian decomposition method for singular initial value Emden-Fowler type equations. <i>International Journal of Applied Mathematical Research</i> , 2015, 5, 69.	0.2	11
24	On the convergence of Homotopy perturbation method. <i>Journal of the Egyptian Mathematical Society</i> , 2015, 23, 424-428.	1.2	72
25	Rational Homotopy Perturbation Method for solving stiff systems of ordinary differential equations. <i>Applied Mathematical Modelling</i> , 2015, 39, 1291-1299.	4.2	21
26	FD-RBF for Partial Integro-Differential Equations with a Weakly Singular Kernel. <i>Applied and Computational Mathematics</i> , 2015, 4, 445.	0.3	3
27	RBFs for Integral Equations with a Weakly Singular Kernel. <i>American Journal of Applied Mathematics</i> , 2015, 3, 250.	0.2	4
28	Galerkin RBF for Integro-Differential Equations. <i>British Journal of Mathematics &amp; Computer Science</i> , 2015, 11, 1-9.	0.3	3
29	Indirect RBF for High-Order Integro-Differential Equations. <i>British Journal of Mathematics &amp; Computer Science</i> , 2015, 11, 1-16.	0.3	1
30	An easy trick to a periodic solution of relativistic harmonic oscillator. <i>Journal of the Egyptian Mathematical Society</i> , 2014, 22, 45-49.	1.2	5
31	Analytical Solution of the Klein-Gordon Equation by a New Homotopy Perturbation Method. <i>Computational Mathematics and Modeling</i> , 2014, 25, 124-134.	0.5	7
32	Two Efficient Approaches Based On Radial Basis Functions To Nonlinear Time-dependent Partial Differential Equations. <i>Journal of Mathematics and Computer Science</i> , 2014, 09, 1-11.	1.0	5
33	Implementation of adomian polynomials in variational iteration method for solving volterra integral equations. <i>Global Journal of Mathematical Analysis</i> , 2014, 2, .	0.7	0
34	HPM and ADM for partial differential equations. <i>International Journal of Applied Mathematical Research</i> , 2013, 2, .	0.2	0
35	G'/G-Expansion method for related equations to the Zhiber-Shabat equation. <i>Global Journal of Mathematical Analysis</i> , 2013, 1, .	0.7	0
36	Wavelet-Galerkin Method and Some Numerical Method for Lane-Emden Type Differential Equation. <i>American Journal of Applied Mathematics and Statistics</i> , 2013, 1, 83-86.	9.8	2

#	ARTICLE	IF	CITATIONS
37	Application of NHPM for solving Helmholtz equation. International Journal of Computing Science and Mathematics, 2012, 3, 367.	0.3	3
38	A new method for solving the hyperbolic telegraph equation. Computational Mathematics and Modeling, 2012, 23, 519-527.	0.5	11
39	Approximate solutions for Fornberg-Whitham type equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 803-812.	2.8	7
40	Differential transform method for special systems of integral equations. Journal of King Saud University - Science, 2012, 24, 211-214.	3.5	16
41	A new technique for systems of Abel-Volterra integral equations. International Journal of Physical Sciences, 2012, 7, .	0.4	0
42	Exp and modified Exp function methods for nonlinear Drinfeld-Sokolov system. Journal of King Saud University - Science, 2012, 24, 315-318.	3.5	12
43	The First Integral Method for the Generalized Drinfeld-Sokolov-Wilson system and Bretherton equation. International Journal of Applied Mathematical Research, 2012, 1, .	0.2	0
44	The homogenous balance method and its application to the Swift-Hohenberg equation. International Journal of Applied Mathematical Research, 2012, 2, .	0.2	0
45	Homotopy perturbation method for biological species living together. International Journal of Applied Mathematical Research, 2012, 2, .	0.2	1
46	Application of G'/G expansion method to two concert problems. International Journal of Applied Mathematical Research, 2012, 2, .	0.2	1
47	A new algorithm for solving differential equations. Mathematical Methods in the Applied Sciences, 2012, 35, 993-999.	2.3	10
48	Chebyshev wavelets approach for nonlinear systems of Volterra integral equations. Computers and Mathematics With Applications, 2012, 63, 608-616.	2.7	66
49	The homotopy perturbation method for solving neutral functional differential equations with proportional delays. Journal of King Saud University - Science, 2012, 24, 33-37.	3.5	58
50	HAM solution of some initial value problems arising in heat radiation equations. Journal of King Saud University - Science, 2012, 24, 161-165.	3.5	7
51	Numerical solution of functional integral equations by the variational iteration method. Journal of Computational and Applied Mathematics, 2011, 235, 2581-2585.	2.0	15
52	He's homotopy perturbation method: A strongly promising method for solving non-linear systems of the mixed Volterra-Fredholm integral equations. Computers and Mathematics With Applications, 2011, 61, 1016-1023.	2.7	23
53	Notes on An improvement to homotopy perturbation method for solving system of linear equations. Computers and Mathematics With Applications, 2011, 61, 1704.	2.7	0
54	A new homotopy perturbation method for solving systems of partial differential equations. Computers and Mathematics With Applications, 2011, 62, 225-234.	2.7	67

#	ARTICLE	IF	CITATIONS
55	Modified HPM for solving systems of Volterra integral equations of the second kind. Journal of King Saud University - Science, 2011, 23, 35-39.	3.5	28
56	A reliable algorithm for solving nonlinear Jaulentâ€™Miodek equation. Journal of King Saud University - Science, 2011, 23, 133-137.	3.5	5
57	Trigonometric methods as special case of exp function method. , 2011, , .		0
58	A New Analytical Approach for Solving Nonlinear Boundary Value Problems in Finite Domains. Applied Mathematics, 2011, 02, 987-992.	0.4	3
59	A Strong Method for Solving Systems of Integro-Differential Equations. Applied Mathematics, 2011, 02, 1105-1113.	0.4	11
60	Extracting a general iterative method from an Adomian decomposition method and comparing it to the variational iteration method. Computers and Mathematics With Applications, 2010, 59, 622-628.	2.7	29
61	A new third-order family of nonlinear solvers for multiple roots. Computers and Mathematics With Applications, 2010, 59, 3315-3319.	2.7	8
62	A new analytical method for system of ODEs. Numerical Methods for Partial Differential Equations, 2010, 26, 1115-1124.	3.6	10
63	Homotopy perturbation method for homogeneous Smoluchowsk's equation. Numerical Methods for Partial Differential Equations, 2010, 26, 1146-1153.	3.6	15
64	Application of Expâ€™function method to EWâ€™Burgers equation. Numerical Methods for Partial Differential Equations, 2010, 26, 1476-1482.	3.6	2
65	Variational iteration method for solving Fokkerâ€™Planck equation. Journal of the Franklin Institute, 2010, 347, 1137-1147.	3.4	35
66	Analytic solution for Telegraph equation by differential transform method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2904-2906.	2.1	63
67	A new analytical method for solving systems of Volterra integral equations. International Journal of Computer Mathematics, 2010, 87, 1142-1157.	1.8	16
68	VIM for Solving the Pollution Problem of a System of Lakes. Journal of Control Science and Engineering, 2010, 2010, 1-6.	1.0	12
69	Existence and Uniqueness of the Solution of Non-Linear Systems of Volterra Integral Equations of the Second Kind. Journal of Advanced Research in Applied Mathematics, 2010, 2, 39-51.	0.1	5
70	Acceleration of the Convergence of He's Homotopy Perturbation Method for Solving Fredholm Integral Equations of the Second Kind. Journal of Advanced Research in Applied Mathematics, 2010, 2, 58-67.	0.1	0
71	An approximation to the solution of telegraph equation by variational iteration method. Numerical Methods for Partial Differential Equations, 2009, 25, 797-801.	3.6	33
72	Exact solutions for nonlinear Burgers' equation by homotopy perturbation method. Numerical Methods for Partial Differential Equations, 2009, 25, 833-842.	3.6	23

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73	A new HPM for ordinary differential equations. Numerical Methods for Partial Differential Equations, 2009, 26, NA-NA.	3.6	11
74	Convergence of the homotopy perturbation method for partial differential equations. Nonlinear Analysis: Real World Applications, 2009, 10, 2633-2640.	1.7	117
75	Exact and numerical solutions for non-linear Burger's equation by VIM. Mathematical and Computer Modelling, 2009, 49, 1394-1400.	2.0	75
76	He's homotopy perturbation method for solving systems of Volterra integral equations of the second kind. Chaos, Solitons and Fractals, 2009, 39, 770-777.	5.1	97
77	He's homotopy perturbation method for systems of integro-differential equations. Chaos, Solitons and Fractals, 2009, 39, 1253-1258.	5.1	75
78	Application of homotopy perturbation method for systems of Volterra integral equations of the first kind. Chaos, Solitons and Fractals, 2009, 42, 3020-3026.	5.1	25
79	Extension of the Exp-function method for systems of two-dimensional Burgers equations. Computers and Mathematics With Applications, 2009, 58, 2103-2106.	2.7	7
80	Study of convergence of homotopy perturbation method for systems of partial differential equations. Computers and Mathematics With Applications, 2009, 58, 2221-2230.	2.7	78
81	A new technique for solving nonlinear integral differential equations. Computers and Mathematics With Applications, 2009, 58, 2084-2090.	2.7	7
82	Application of the homotopy perturbation method to Zakharov-Kuznetsov equations. Computers and Mathematics With Applications, 2009, 58, 2391-2394.	2.7	37
83	Homotopy Perturbation Method for General Form of Porous Medium Equation. Journal of Porous Media, 2009, 12, 1121-1127.	1.9	5
84	Numerical solution for special non-linear Fredholm integral equation by HPM. Applied Mathematics and Computation, 2008, 195, 681-687.	2.2	52
85	An analytical approximation to the solution of a wave equation by a variational iteration method. Applied Mathematics Letters, 2008, 21, 780-785.	2.7	14
86	Homotopy perturbation method for solving hyperbolic partial differential equations. Computers and Mathematics With Applications, 2008, 56, 453-458.	2.7	43
87	Comparing Homotopy Perturbation Method and Adomian Decomposition Method. , 2008, , .		1
88	Application of the Exp-function method to the equal-width wave equation. Physica Scripta, 2008, 78, 045005.	2.5	13
89	He's Variational Iteration Method for Solving Hyperbolic Differential Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2007, 8, .	1.0	40
90	He's variational iteration method for fourth-order parabolic equations. Computers and Mathematics With Applications, 2007, 54, 1047-1054.	2.7	45

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91	A hybrid of the restarted Arnoldi and electromagnetism meta-heuristic methods for calculating eigenvalues and eigenvectors of a non-symmetric matrix. Applied Mathematics and Computation, 2007, 191, 79-88.	2.2	4
92	He's variational iteration method for solving linear and non-linear systems of ordinary differential equations. Applied Mathematics and Computation, 2007, 191, 287-297.	2.2	48
93	Exact solutions for non-linear Schrödinger equations by He's homotopy perturbation method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 79-84.	2.1	130
94	Investigation of a novel perforation technique in petroleum wells' perforation by drilling. Journal of the Franklin Institute, 2007, 344, 777-789.	3.4	23
95	Solution of the epidemic model by Adomian decomposition method. Applied Mathematics and Computation, 2006, 173, 1101-1106.	2.2	123
96	An improvement to an alternate algorithm for computing Adomian polynomials in special cases. Applied Mathematics and Computation, 2006, 173, 582-592.	2.2	18
97	Ozone decomposition of the second order in aqueous solutions. Applied Mathematics and Computation, 2006, 177, 220-225.	2.2	3
98	Modeling the pollution of a system of lakes. Applied Mathematics and Computation, 2006, 178, 423-430.	2.2	23
99	An improvement to the fixed point iterative method. Applied Mathematics and Computation, 2006, 182, 567-571.	2.2	8
100	An approximation to the solution of hyperbolic equations by Adomian decomposition method and comparison with characteristics method. Applied Mathematics and Computation, 2005, 163, 633-638.	2.2	29
101	A computational method for solution of the prey and predator problem. Applied Mathematics and Computation, 2005, 163, 841-847.	2.2	38
102	Solution of systems of integral-differential equations by Adomian decomposition method. Applied Mathematics and Computation, 2005, 168, 1232-1238.	2.2	34
103	A new approach to the solution of the prey and predator problem and comparison of the results with the Adomian method. Applied Mathematics and Computation, 2005, 171, 486-491.	2.2	20
104	An analytic approximation to the solution of heat equation by Adomian decomposition method and restrictions of the method. Applied Mathematics and Computation, 2005, 171, 738-745.	2.2	6
105	On the decomposition method for system of linear equations and system of linear Volterra integral equations. Applied Mathematics and Computation, 2004, 147, 19-27.	2.2	30
106	Solution of the system of ordinary differential equations by Adomian decomposition method. Applied Mathematics and Computation, 2004, 147, 713-719.	2.2	110
107	A new computational method for Laplace transforms by decomposition method. Applied Mathematics and Computation, 2004, 150, 841-846.	2.2	25
108	The decomposition method applied to systems of Fredholm integral equations of the second kind. Applied Mathematics and Computation, 2004, 148, 443-452.	2.2	82

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109	Solution of wave equation by Adomian decomposition method and the restrictions of the method. Applied Mathematics and Computation, 2004, 149, 807-814.	2.2	21
110	Solution of a system of nonlinear equations by Adomian decomposition method. Applied Mathematics and Computation, 2004, 150, 847-854.	2.2	41
111	Adomian Solution of Forchheimer Model to Describe Porous Media Flow. , 2004, , .		3
112	Solution of a system of Volterra integral equations of the first kind by Adomian method. Applied Mathematics and Computation, 2003, 139, 249-258.	2.2	85
113	An alternate algorithm for computing Adomian polynomials in special cases. Applied Mathematics and Computation, 2003, 138, 523-529.	2.2	79
114	Solving concrete examples by Adomian method. Applied Mathematics and Computation, 2003, 135, 161-167.	2.2	4
115	Solution of the kinetic modeling of lactic acid fermentation using Adomian decomposition method. Applied Mathematics and Computation, 2003, 144, 433-439.	2.2	40
116	Solving the problem of biological species living together by Adomian decomposition method. Applied Mathematics and Computation, 2002, 129, 339-343.	2.2	30
117	On the order of convergence of Adomian method. Applied Mathematics and Computation, 2002, 130, 383-387.	2.2	104
118	Solution of nonlinear equations by modified adomian decomposition method. Applied Mathematics and Computation, 2002, 132, 167-172.	2.2	88
119	A simple algorithm for calculating Adomian polynomials. International Journal of Contemporary Mathematical Sciences, 0, 2, 975-982.	0.3	35
120	A Maple program for computing Adomian polynomials. International Mathematical Forum, 0, , 1919-1924.	0.1	9
121	An approximation to the solution of telegraph equation by Adomian decomposition method. International Mathematical Forum, 0, 2, 2231-2236.	0.1	11
122	Solution of the wave equation by homotopy perturbation method. International Mathematical Forum, 0, 2, 2237-2244.	0.1	2
123	An approximation to the solution of Klein-Gordon equation with initial or boundary value condition. International Mathematical Forum, 0, , 1433-1439.	0.1	0
124	A comparison between Newton's method and A.D.M for solving special Fredholm integral equations. International Mathematical Forum, 0, 2, 215-222.	0.1	1