

Jafar Biazar, JBiazar

List of Publications by Year in descending order

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124
papers

2,974
citations

159585

30
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49
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126
all docs

126
docs citations

126
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Solution of the epidemic model by Adomian decomposition method. Applied Mathematics and Computation, 2006, 173, 1101-1106.	2.2	123
3	Convergence of the homotopy perturbation method for partial differential equations. Nonlinear Analysis: Real World Applications, 2009, 10, 2633-2640.	1.7	117
4	Solution of the system of ordinary differential equations by Adomian decomposition method. Applied Mathematics and Computation, 2004, 147, 713-719.	2.2	110
5	On the order of convergence of Adomian method. Applied Mathematics and Computation, 2002, 130, 383-387.	2.2	104
6	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
7	Solution of nonlinear equations by modified adomian decomposition method. Applied Mathematics and Computation, 2002, 132, 167-172.	2.2	88
8	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
9	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
10	An alternate algorithm for computing Adomian polynomials in special cases. Applied Mathematics and Computation, 2003, 138, 523-529.	2.2	79
11	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
12	Exact and numerical solutions for non-linear Burger's equation by VIM. Mathematical and Computer Modelling, 2009, 49, 1394-1400.	2.0	75
13	He's homotopy perturbation method for systems of integro-differential equations. Chaos, Solitons and Fractals, 2009, 39, 1253-1258.	5.1	75
14	On the convergence of Homotopy perturbation method. Journal of the Egyptian Mathematical Society, 2015, 23, 424-428.	1.2	72
15	A new homotopy perturbation method for solving systems of partial differential equations. Computers and Mathematics With Applications, 2011, 62, 225-234.	2.7	67
16	Chebyshev wavelets approach for nonlinear systems of Volterra integral equations. Computers and Mathematics With Applications, 2012, 63, 608-616.	2.7	66
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Numerical solution for special non-linear Fredholm integral equation by HPM. Applied Mathematics and Computation, 2008, 195, 681-687.	2.2	52
20	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
21	He's variational iteration method for fourth-order parabolic equations. Computers and Mathematics With Applications, 2007, 54, 1047-1054.	2.7	45
22	Homotopy perturbation method for solving hyperbolic partial differential equations. Computers and Mathematics With Applications, 2008, 56, 453-458.	2.7	43
23	Solution of a system of nonlinear equations by Adomian decomposition method. Applied Mathematics and Computation, 2004, 150, 847-854.	2.2	41
24	Solution of the kinetic modeling of lactic acid fermentation using Adomian decomposition method. Applied Mathematics and Computation, 2003, 144, 433-439.	2.2	40
25	He's Variational Iteration Method for Solving Hyperbolic Differential Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2007, 8, .	1.0	40
26	A computational method for solution of the prey and predator problem. Applied Mathematics and Computation, 2005, 163, 841-847.	2.2	38
27	Application of the homotopy perturbation method to Zakharov-Kuznetsov equations. Computers and Mathematics With Applications, 2009, 58, 2391-2394.	2.7	37
28	Variational iteration method for solving Fokker-Planck equation. Journal of the Franklin Institute, 2010, 347, 1137-1147.	3.4	35
29	A simple algorithm for calculating Adomian polynomials. International Journal of Contemporary Mathematical Sciences, 0, 2, 975-982.	0.3	35
30	Solution of systems of integral-differential equations by Adomian decomposition method. Applied Mathematics and Computation, 2005, 168, 1232-1238.	2.2	34
31	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
32	The first integral method for solving some conformable fractional differential equations. Optical and Quantum Electronics, 2018, 50, 1.	3.3	32
33	Solving the problem of biological species living together by Adomian decomposition method. Applied Mathematics and Computation, 2002, 129, 339-343.	2.2	30
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	An interval for the shape parameter in radial basis function approximation. Applied Mathematics and Computation, 2017, 315, 131-149.	2.2	28
39	Resonant solitons to the nonlinear Schrödinger equation with different forms of nonlinearities. Optik, 2018, 164, 201-209.	2.9	26
40	A new computational method for Laplace transforms by decomposition method. Applied Mathematics and Computation, 2004, 150, 841-846.	2.2	25
41	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
42	Modeling the pollution of a system of lakes. Applied Mathematics and Computation, 2006, 178, 423-430.	2.2	23
43	Investigation of a novel perforation technique in petroleum wells' perforation by drilling. Journal of the Franklin Institute, 2007, 344, 777-789.	3.4	23
44	Exact solutions for nonlinear Burgers' equation by homotopy perturbation method. Numerical Methods for Partial Differential Equations, 2009, 25, 833-842.	3.6	23
45	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
46	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
47	Rational Homotopy Perturbation Method for solving stiff systems of ordinary differential equations. Applied Mathematical Modelling, 2015, 39, 1291-1299.	4.2	21
48	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
49	An improvement to an alternate algorithm for computing Adomian polynomials in special cases. Applied Mathematics and Computation, 2006, 173, 582-592.	2.2	18
50	The Fractional Differential Model of HIV-1 Infection of CD4 ⁺ T-Cells with Description of the Effect of Antiviral Drug Treatment. Computational and Mathematical Methods in Medicine, 2019, 1-12.	1.3	18
51	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
52	A new analytical method for solving systems of Volterra integral equations. International Journal of Computer Mathematics, 2010, 87, 1142-1157.	1.8	16
53	Differential transform method for special systems of integral equations. Journal of King Saud University - Science, 2012, 24, 211-214.	3.5	16
54	Analytical study of exact traveling wave solutions for time-fractional nonlinear Schrödinger equations. Optical and Quantum Electronics, 2018, 50, 1.	3.3	16

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55	Homotopy perturbation method for homogeneous Smoluchowsk's equation. Numerical Methods for Partial Differential Equations, 2010, 26, 1146-1153.	3.6	15
56	Numerical solution of functional integral equations by the variational iteration method. Journal of Computational and Applied Mathematics, 2011, 235, 2581-2585.	2.0	15
57	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
58	Application of the Exp-function method to the equal-width wave equation. Physica Scripta, 2008, 78, 045005.	2.5	13
59	VIM for Solving the Pollution Problem of a System of Lakes. Journal of Control Science and Engineering, 2010, 2010, 1-6.	1.0	12
60	Exp and modified Exp function methods for nonlinear Drinfeld-Sokolov system. Journal of King Saud University - Science, 2012, 24, 315-318.	3.5	12
61	A new HPM for ordinary differential equations. Numerical Methods for Partial Differential Equations, 2009, 26, NA-NA.	3.6	11
62	A new method for solving the hyperbolic telegraph equation. Computational Mathematics and Modeling, 2012, 23, 519-527.	0.5	11
63	A modified Adomian decomposition method for singular initial value Emden-Fowler type equations. International Journal of Applied Mathematical Research, 2015, 5, 69.	0.2	11
64	An approximation to the solution of telegraph equation by Adomian decomposition method. International Mathematical Forum, 0, 2, 2231-2236.	0.1	11
65	A Strong Method for Solving Systems of Integro-Differential Equations. Applied Mathematics, 2011, 02, 1105-1113.	0.4	11
66	A new analytical method for system of ODEs. Numerical Methods for Partial Differential Equations, 2010, 26, 1115-1124.	3.6	10
67	A new algorithm for solving differential equations. Mathematical Methods in the Applied Sciences, 2012, 35, 993-999.	2.3	10
68	Selection of an Interval for Variable Shape Parameter in Approximation by Radial Basis Functions. Advances in Numerical Analysis, 2016, 2016, 1-11.	0.2	9
69	Analytical solutions for conformable fractional Bratu-type equations. International Journal of Applied Mathematical Research, 2017, 7, 15-19.	0.2	9
70	A Maple program for computing Adomian polynomials. International Mathematical Forum, 0, , 1919-1924.	0.1	9
71	An improvement to the fixed point iterative method. Applied Mathematics and Computation, 2006, 182, 567-571.	2.2	8
72	A new third-order family of nonlinear solvers for multiple roots. Computers and Mathematics With Applications, 2010, 59, 3315-3319.	2.7	8

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73	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
74	A new technique for solving nonlinear integralâ€ differential equations. Computers and Mathematics With Applications, 2009, 58, 2084-2090.	2.7	7
75	Approximate solutions for Fornbergâ€Whitham type equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 803-812.	2.8	7
76	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
77	Analytical Solution of the Kleinâ€Gordon Equation by a New Homotopy Perturbation Method. Computational Mathematics and Modeling, 2014, 25, 124-134.	0.5	7
78	General solution of second order fractional differential equations. International Journal of Applied Mathematical Research, 2018, 7, 56-61.	0.2	7
79	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
80	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
81	A reliable algorithm for solving nonlinear Jaulentâ€Miodek equation. Journal of King Saud University - Science, 2011, 23, 133-137.	3.5	5
82	An easy trick to a periodic solution of relativistic harmonic oscillator. Journal of the Egyptian Mathematical Society, 2014, 22, 45-49.	1.2	5
83	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
84	Homotopy Perturbation Method for General Form of Porous Medium Equation. Journal of Porous Media, 2009, 12, 1121-1127.	1.9	5
85	Two Efficient Approaches Based On Radial Basis Functions To Nonlinear Time-dependent Partial Differential Equations. Journal of Mathematics and Computer Science, 2014, 09, 1-11.	1.0	5
86	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
87	Solving concrete examples by Adomian method. Applied Mathematics and Computation, 2003, 135, 161-167.	2.2	4
88	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
89	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
90	RBFs for Integral Equations with a Weakly Singular Kernel. American Journal of Applied Mathematics, 2015, 3, 250.	0.2	4

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91	Adomian Solution of Forchheimer Model to Describe Porous Media Flow. , 2004, , .		3
92	Ozone decomposition of the second order in aqueous solutions. Applied Mathematics and Computation, 2006, 177, 220-225.	2.2	3
93	Application of NHPM for solving Helmholtz equation. International Journal of Computing Science and Mathematics, 2012, 3, 367.	0.3	3
94	Analytic approximation of Volterra's population model. Journal of Applied Mathematics, Statistics and Informatics, 2017, 13, 5-17.	0.2	3
95	Mellin transform and conformable fractional operator: applications. SeMA Journal, 2019, 76, 203-215.	2.0	3
96	FD-RBF for Partial Integro-Differential Equations with a Weakly Singular Kernel. Applied and Computational Mathematics, 2015, 4, 445.	0.3	3
97	A New Analytical Approach for Solving Nonlinear Boundary Value Problems in Finite Domains. Applied Mathematics, 2011, 02, 987-992.	0.4	3
98	Galerkin RBF for Integro-Differential Equations. British Journal of Mathematics & Computer Science, 2015, 11, 1-9.	0.3	3
99	Application of Exp-function method to EW Burgers equation. Numerical Methods for Partial Differential Equations, 2010, 26, 1476-1482.	3.6	2
100	Numerical Solution of Riccati Equations by the Adomian and Asymptotic Decomposition Methods over Extended Domains. International Journal of Differential Equations, 2015, 2015, 1-7.	0.8	2
101	Wavelet-Galerkin Method and Some Numerical Method for Lane-Emden Type Differential Equation. American Journal of Applied Mathematics and Statistics, 2013, 1, 83-86.	9.8	2
102	Solution of the wave equation by homotopy perturbation method. International Mathematical Forum, 0, 2, 2237-2244.	0.1	2
103	Applications of OHAM and MOHAM for Fractional Seventh-Order SKI Equations. Journal of Applied Mathematics, 2021, 2021, 1-8.	0.9	2
104	Comparing Homotopy Perturbation Method and Adomian Decomposition Method. , 2008, , .		1
105	Homotopy perturbation method for biological species living together. International Journal of Applied Mathematical Research, 2012, 2, .	0.2	1
106	Application of G'/G expansion method to two concert problems. International Journal of Applied Mathematical Research, 2012, 2, .	0.2	1
107	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
108	Indirect RBF for High-Order Integro-Differential Equations. British Journal of Mathematics & Computer Science, 2015, 11, 1-16.	0.3	1

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109	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
110	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
111	Trigonometric methods as special case of exp function method. , 2011, , .		0
112	A new technique for systems of Abel-Volterra integral equations. International Journal of Physical Sciences, 2012, 7, .	0.4	0
113	The First Integral Method for the Generalized Drinfel'd-Sokolov-Wilson system and Bretherton equation. International Journal of Applied Mathematical Research, 2012, 1, .	0.2	0
114	The homogenous balance method and its application to the Swift-Hohenberg equation. International Journal of Applied Mathematical Research, 2012, 2, .	0.2	0
115	HPM and ADM for partial differential equations. International Journal of Applied Mathematical Research, 2013, 2, .	0.2	0
116	G'/G-Expansion method for related equations to the Zhiber-Shabat equation. Global Journal of Mathematical Analysis, 2013, 1, .	0.7	0
117	Redistribution of Nodes with Two Constraints in Meshless Method of Line to Time-Dependent Partial Differential Equations. International Journal of Differential Equations, 2015, 2015, 1-8.	0.8	0
118	Theory and numerical approaches of high order fractional Sturm-Liouville problems. Turkish Journal of Mathematics, 2021, 45, 1564-1579.	0.7	0
119	An approximation to the solution of Klein-Gordon equation with initial or boundary value condition. International Mathematical Forum, 0, , 1433-1439.	0.1	0
120	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
121	Implementation of adomian polynomials in variational iteration method for solving volterra integral equations. Global Journal of Mathematical Analysis, 2014, 2, .	0.7	0
122	Implementation of multi-step differential transformation method for hyperchaotic Rossler system. International Journal of Applied Mathematical Research, 2016, 6, 4-6.	0.2	0
123	Numerical solution for system of nonlinear volterra integral equation of the first kind via MOHAM. AIP Conference Proceedings, 2022, , .	0.4	0
124	Perturbed Galerkin Method for Solving Integro-Differential Equations. Journal of Applied Mathematics, 2022, 2022, 1-8.	0.9	0