

Zaid Odibat

List of Publications by Year in descending order

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papers

3,914
citations

279701

23
h-index

477173

29
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docs citations

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times ranked

1531
citing authors

#	ARTICLE	IF	CITATIONS
1	An Implementation of the Generalized Differential Transform Scheme for Simulating Impulsive Fractional Differential Equations. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-11.	0.6	13
2	The optimal homotopy analysis method applied on nonlinear time-fractional hyperbolic partial differential equation. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 2008-2022.	2.0	9
3	The optimized decomposition method for a reliable treatment of IVPs for second order differential equations. <i>Physica Scripta</i> , 2021, 96, 095206.	1.2	6
4	An optimized decomposition method for nonlinear ordinary and partial differential equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 541, 123323.	1.2	23
5	An optimized linearization-based predictor-corrector algorithm for the numerical simulation of nonlinear FDEs. <i>Physica Scripta</i> , 2020, 95, 065202.	1.2	16
6	A Robust Computational Algorithm of Homotopy Asymptotic Method for Solving Systems of Fractional Differential Equations. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019, 14, .	0.7	62
7	On Legendre polynomial approximation with the VIM or HAM for numerical treatment of nonlinear fractional differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 2956-2968.	1.1	52
8	The homotopy analysis method for handling systems of fractional differential equations. <i>Applied Mathematical Modelling</i> , 2010, 34, 24-35.	2.2	102
9	A reliable algorithm of homotopy analysis method for solving nonlinear fractional differential equations. <i>Applied Mathematical Modelling</i> , 2010, 34, 593-600.	2.2	115
10	The variational iteration method: An efficient scheme for handling fractional partial differential equations in fluid mechanics. <i>Computers and Mathematics With Applications</i> , 2009, 58, 2199-2208.	1.4	217
11	Numerical methods for nonlinear partial differential equations of fractional order. <i>Applied Mathematical Modelling</i> , 2008, 32, 28-39.	2.2	208
12	Variational iteration method for solving the space- and time-fractional KdV equation. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 262-271.	2.0	77
13	Numerical solutions of the space-time fractional advection-dispersion equation. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 1416-1429.	2.0	64
14	Generalized differential transform method: Application to differential equations of fractional order. <i>Applied Mathematics and Computation</i> , 2008, 197, 467-477.	1.4	176
15	A generalized differential transform method for linear partial differential equations of fractional order. <i>Applied Mathematics Letters</i> , 2008, 21, 194-199.	1.5	310
16	Application of generalized differential transform method to multi-order fractional differential equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 1642-1654.	1.7	156
17	A novel method for nonlinear fractional partial differential equations: Combination of DTM and generalized Taylor's formula. <i>Journal of Computational and Applied Mathematics</i> , 2008, 220, 85-95.	1.1	119
18	Modified homotopy perturbation method: Application to quadratic Riccati differential equation of fractional order. <i>Chaos, Solitons and Fractals</i> , 2008, 36, 167-174.	2.5	334

#	ARTICLE	IF	CITATIONS
19	ANALYTICAL COMPARISON BETWEEN THE HOMOTOPY PERTURBATION METHOD AND VARIATIONAL ITERATION METHOD FOR DIFFERENTIAL EQUATIONS OF FRACTIONAL ORDER. International Journal of Modern Physics B, 2008, 22, 4041-4058.	1.0	14
20	Numerical approach to differential equations of fractional order. Journal of Computational and Applied Mathematics, 2007, 207, 96-110.	1.1	209
21	Comparison between the homotopy perturbation method and the variational iteration method for linear fractional partial differential equations. Computers and Mathematics With Applications, 2007, 54, 910-919.	1.4	139
22	Numerical comparison of methods for solving linear differential equations of fractional order. Chaos, Solitons and Fractals, 2007, 31, 1248-1255.	2.5	284
23	Homotopy perturbation method for nonlinear partial differential equations of fractional order. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 345-350.	0.9	315
24	A reliable treatment of homotopy perturbation method for Kleinâ€“Gordon equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 351-357.	0.9	67
25	Numerical solution of Fokkerâ€“Planck equation with space- and time-fractional derivatives. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 349-358.	0.9	70
26	Generalized differential transform method for solving a space- and time-fractional diffusion-wave equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 379-387.	0.9	177
27	Analytical solution of a time-fractional Navierâ€“Stokes equation by Adomian decomposition method. Applied Mathematics and Computation, 2006, 177, 488-494.	1.4	293
28	Variational iteration method for solving nonlinear boundary value problems. Applied Mathematics and Computation, 2006, 183, 1351-1358.	1.4	76
29	Analytical approach to linear fractional partial differential equations arising in fluid mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 271-279.	0.9	205
30	A Legendreâ€“based approach of the optimized decomposition method for solving nonlinear Caputoâ€“type fractional differential equations. Mathematical Methods in the Applied Sciences, 0, , .	1.2	6