

# Ahmad Sami Bataineh

## List of Publications by Year in descending order

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35  
papers

1,107  
citations

535685

17  
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445137

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g-index

35  
all docs

35  
docs citations

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times ranked

783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bernstein Collocation Method for Solving MHD Jeffery-Hamel Blood Flow Problem with Error Estimations. <i>International Journal of Differential Equations</i> , 2022, 2022, 1-9.	0.3	0
2	An Enhanced Adaptive Bernstein Collocation Method for Solving Systems of ODEs. <i>Mathematics</i> , 2021, 9, 425.	1.1	6
3	An Efficient Scheme for Time-Dependent Emden-Fowler Type Equations Based on Two-Dimensional Bernstein Polynomials. <i>Mathematics</i> , 2020, 8, 1473.	1.1	3
4	Investigation of a single-axis discrete solar tracking system for reduced actuations and maximum energy collection. <i>Automation in Construction</i> , 2019, 98, 102-109.	4.8	51
5	Multistage Bernstein collocation method for solving strongly nonlinear damped systems. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 122-131.	1.5	6
6	Intelligent Adaptive Control for Anti-Lock Braking System. , 2018, , .		4
7	Modified Legendre Operational Matrix of Differentiation for Solving Strongly Nonlinear Dynamical Systems. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1.	0.9	1
8	Bernstein polynomials method and its error analysis for solving nonlinear problems in the calculus of variations: Convergence analysis via residual function. <i>Filomat</i> , 2018, 32, 1379-1393.	0.2	8
9	A sharper form of half-discrete Hilbert inequality related to Hardy inequality. <i>Filomat</i> , 2018, 32, 6733-6740.	0.2	3
10	Solution of fractional-order differential equations based on the operational matrices of new fractional Bernstein functions. <i>Journal of King Saud University - Science</i> , 2017, 29, 1-18.	1.6	40
11	Bernstein Operational Matrix with Error Analysis for Solving High Order Delay Differential Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 1749-1762.	0.9	12
12	Bernstein method for the MHD flow and heat transfer of a second grade fluid in a channel with porous wall. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 2149-2156.	3.4	11
13	An adaptation of homotopy analysis method for reliable treatment of strongly nonlinear problems: construction of homotopy polynomials. <i>Mathematical Methods in the Applied Sciences</i> , 2015, 38, 991-1000.	1.2	59
14	APPROXIMATE SOLUTIONS OF SINGULAR DIFFERENTIAL EQUATIONS WITH ESTIMATION ERROR BY USING BERNSTEIN POLYNOMIALS. <i>International Journal of Pure and Applied Mathematics</i> , 2015, 100, .	0.2	10
15	Natural convection in an enclosure containing a sinusoidally heated cylindrical source. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 119-127.	2.5	47
16	Approximate Solutions of Singular Two-Point BVPs Using Legendre Operational Matrix of Differentiation. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-6.	0.4	2
17	A Representation of the Exact Solution of Generalized Lane-Emden Equations Using a New Analytical Method. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-10.	0.3	95
18	Approximate Solution of Nonlinear System of BVP Arising in Fluid Flow Problem. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7.	0.6	14

#	ARTICLE	IF	CITATIONS
19	Novel method for solving singular two-point BVPs. Journal of Physics: Conference Series, 2013, 435, 012044.	0.3	2
20	The comparison between Homotopy Analysis Method and Optimal Homotopy Asymptotic Method for nonlinear age-structured population models. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1163-1177.	1.7	41
21	Renewable energy potential assessment in Jordan. Renewable and Sustainable Energy Reviews, 2011, 15, 2232-2239.	8.2	34
22	On convergence of homotopy analysis method and its modification for fractional modified KdV equations. Journal of Applied Mathematics and Computing, 2010, 33, 61-81.	1.2	9
23	Assessment of renewable energy potential, at Aqaba in Jordan. Renewable and Sustainable Energy Reviews, 2010, 14, 1347-1351.	8.2	32
24	Direct Solution of $n$ -Order IVPs by Homotopy Analysis Method. Differential Equations and Nonlinear Mechanics, 2009, 2009, 1-15.		
25	Solution of fully developed free convection of a micropolar fluid in a vertical channel by homotopy analysis method. International Journal for Numerical Methods in Fluids, 2009, 60, 779-789.	0.9	10
26	Series Solutions of Systems of Nonlinear Fractional Differential Equations. Acta Applicandae Mathematicae, 2009, 105, 189-198.	0.5	33
27	Homotopy analysis method for singular IVPs of Emden-Fowler type. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1121-1131.	1.7	93
28	Modified homotopy analysis method for solving systems of second-order BVPs. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 430-442.	1.7	74
29	On a new reliable modification of homotopy analysis method. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 409-423.	1.7	76
30	Approximate solutions of singular two-point BVPs by modified homotopy analysis method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4062-4066.	0.9	41
31	The homotopy analysis method for Cauchy reaction-diffusion problems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 613-618.	0.9	59
32	Solving systems of ODEs by homotopy analysis method. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 2060-2070.	1.7	73
33	Approximate analytical solutions of systems of PDEs by homotopy analysis method. Computers and Mathematics With Applications, 2008, 55, 2913-2923.	1.4	54
34	Series Solution of the Multispecies Lotka-Volterra Equations by Means of the Homotopy Analysis Method. Differential Equations and Nonlinear Mechanics, 2008, 2008, 1-14.	0.3	5
35	Solutions of time-dependent Emden-Fowler type equations by homotopy analysis method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 371, 72-82.	0.9	88