

Zainab Ayati

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My name is Zainab Ayati. I was born in Iran and studied here in my country up to PhD level. In 2011 I got my PhD in applied mathematics (solving functional equations) from Guilan University and now I am an assistant professor in Guilan University. During my education I was one of the top students and received several prizes because of research in various fields. The lists of articles are as follows:

num	paper	journal	authors	data
1	New solitary solutions for modified Equal-width wave equation Using exp-function method	International Journal of nonlinear Dynamics in Engineering and Sciences (D. Ganji)	J. Biazar, Z. Ayati, H.Ebrahimi	1 (2009), 109-114 published
2	Application of Exp-function method to Equal-width wave equation	Physica Scripta(ISI) Impact Factor:0.982	J. Biazar, Z. Ayati,	(2008) 78 045005 published
3	Application of Exp-function method to EW-Burgers equation	numerical methods partial differential equation (ISI) Impact Factor: 1.427	J. Biazar, Z. Ayati,	published
4	Homotopy perturbation method for general form of porous medium equation	porous media(ISI) Impact Factor: 0.684	J. Biazar, Z. Ayati, H.Ebrahimi	published 2009
5	A numerical solution of reaction-diffusion Brusselator	Journal of Nature Science and Sustainable	J. Biazar, Z. Ayati,	Volume 1,Number 2, pp. 263-270published

	system by A.D.M.	Technology		
6	An Approximation to the Solution of the Brusselator System by Adomian Decomposition Method and Comparing the Results With Runge-Kutta Method	Int. J. Contemp. Math. Sciences	J. Biazar, Z. Ayati,	,Vol.2,2007, no.20,983-989 published
7	An approximation to the solution of parabolic equation by Adomian decomposition method and comparing the result with Crank-Nicolson method	International Mathematical Forum	J. Biazar, Z. Ayati,	1,2006,no.39,1925-1933 published
8	An Approximation to the Solution of Telegraph Equation by Variational Iteration Method	Numerical Methods For Partial Differential Equations (ISI) Impact Factor: 1.427	J. Biazar, H.Ebrahimi, Z. Ayati	Published 2009
9	Extension of exp-function method for systems of two-dimensional Burgers equations	Computers and mathematics with applications (ISI) Impact Factor: 1.472	J. Biazar, Z. Ayati,	published doi:10.1016/j.camwa .2009.03.003
10	Comparing Homotopy perturbation method and Adomian decomposition method	Numerical analysis and applied mathematics (ISI) AIP conference	J. Biazar, Z. Ayati, H.Ebrahimi	Published 2009
11	Homotopy perturbation method for homogeneous Smoluchowski's equation	Numerical Methods For Partial Differential Equations (ISI) Impact Factor: 1.427	J. Biazar, Z. Ayati, M.yaghouti	Published Volume 26, Issue 5 , pages 1146–1153 2010
12	Exp-function method for solving coupled-KdV equations	International Journal of nonlinear Dynamics in Engineering and Sciences	J. Biazar, Z. Ayati,	Published(2009)
13	Application of $\frac{G'}{G}$ expansion method to the (2+1)-dimensional dispersive long wave equation	Iranian journal of Optimization (IJO)	J. Biazar, Z. Ayati	Published 2010

14	A Maple Program for the second kind of Volterra Integral Equations by Homotopy perturbation Method	International Mathematical Forum	J. Biazar, Z. Ayati,	published 2010
15	Application of Exp-function method to the (2 + 1)-dimensional Calogero Bogoyavlanskii Schiff equation	Iranian journal of Optimization (IJO)	J. Biazar, Z. Ayati,	Published 2009
16	An approximation to the solution of Ginzburg – Landau equation by He,s homotopy perturbation method	Applications and Applied Mathematics (AAM)- especial issue	J. Biazar, M, Partovi, Z. Ayati,	Published 2010
17	Exp-function method for solving the (2 + 1)-dimensional generalized Nizhnik–Novikov–Veselov systema	Advances and Applications in Mathematical Sciences (AAMS)	J. Biazar, Z. Ayati,	Published 2010
18	Exp and Modified Exp function methods for nonlinear Drinfeld–Sokolov system	Journal of King Saud University(ISI)	J. Biazar, Z. Ayati,	Published 2011
19	Application of Exp-function method to the (2 + 1)-dimensional dispersive long wave equation	Journal of Nature Science and Sustainable Technology	J. Biazar, Z. Ayati,	published
20	Application of Exp-function method to the (2 + 1)-dimensional Boiti–Leon–Pempinelli equation.	Journal of Nature Science and Sustainable Technology	J. Biazar, Z. Ayati,	published
21	Trigonometric methods as a special case of Exp function method.	AIP conference	J. Biazar, Z. Ayati,	published 2011

22	comparing tanh-coth method $\frac{G'}{G}$ expansion method and Improved $\frac{G'}{G}$ expansion method	Applications and Applied Mathematics (AAM)	J. Biazar, Z. Ayati,	Published 2011
23	New technique to solve nonlinear differential-difference systems	World Applied Sciences Journal (WASJ) (ISI)	Z. Ayati, J. Biazar,	Published 2013
24	Application of $\frac{G'}{G}$ expansion method to two concert problem	International Journal of Applied Mathematical research	Z. Ayati, J. biazar	Published 2013
25	He, s Homotopy perturbation method for biological species living together	International Journal of Applied Mathematical research	J. Biazar, M, Partovi, Z. Ayati,	Published 2013