

# Vasile Marinca

## List of Publications by Year in descending order

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100  
papers

1,923  
citations

361296

20  
h-index

276775

41  
g-index

113  
all docs

113  
docs citations

113  
times ranked

694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Optimal Homotopy Asymptotic Method for solving nonlinear equations arising in heat transfer. International Communications in Heat and Mass Transfer, 2008, 35, 710-715.	2.9	306
2	An optimal homotopy asymptotic method applied to the steady flow of a fourth-grade fluid past a porous plate. Applied Mathematics Letters, 2009, 22, 245-251.	1.5	232
3	Optimal homotopy asymptotic method with application to thin film flow. Open Physics, 2008, 6, .	0.8	124
4	Determination of periodic solutions for the motion of a particle on a rotating parabola by means of the optimal homotopy asymptotic method. Journal of Sound and Vibration, 2010, 329, 1450-1459.	2.1	103
5	Explicit analytical approximation to large-amplitude non-linear oscillations of a uniform cantilever beam carrying an intermediate lumped mass and rotary inertia. Meccanica, 2010, 45, 847-855.	1.2	72
6	Nonlinear Dynamical Systems in Engineering. , 2011, , .		72
7	Accurate analytical solutions to oscillators with discontinuities and fractional-power restoring force by means of the optimal homotopy asymptotic method. Computers and Mathematics With Applications, 2010, 60, 1607-1615.	1.4	70
8	A modified iteration perturbation method for some nonlinear oscillation problems. Acta Mechanica, 2006, 184, 231-242.	1.1	62
9	The Optimal Homotopy Asymptotic Method. , 2015, , .		57
10	The Optimal Homotopy Asymptotic Method for solving Blasius equation. Applied Mathematics and Computation, 2014, 231, 134-139.	1.4	56
11	Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust. Energies, 2019, 12, 915.	1.6	52
12	Nonlinear dynamic analysis of an electrical machine rotor-bearing system by the optimal homotopy perturbation method. Computers and Mathematics With Applications, 2011, 61, 2019-2024.	1.4	44
13	An analytical approach to nonlinear dynamical model of a permanent magnet synchronous generator. Wind Energy, 2015, 18, 1657-1670.	1.9	38
14	Periodic solutions for some strongly nonlinear oscillations by He's variational iteration method. Computers and Mathematics With Applications, 2007, 54, 1188-1196.	1.4	36
15	Optimal Homotopy Perturbation Method for a Non-Conservative Dynamical System of a Rotating Electrical Machine. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 509-516.	0.7	35
16	On the flow of a Walters-type viscoelastic fluid in a vertical channel with porous wall. International Journal of Heat and Mass Transfer, 2014, 79, 146-165.	2.5	35
17	An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System. Mathematics, 2020, 8, 1083.	1.1	32
18	Periodic solutions of Duffing equation with strong non-linearity. Chaos, Solitons and Fractals, 2008, 37, 144-149.	2.5	29

#	ARTICLE	IF	CITATIONS
19	An Optimal Homotopy Asymptotic Approach Applied to Nonlinear MHD Jeffery-Hamel Flow. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-16.	0.6	29
20	Approximate solutions for steady boundary layer MHD viscous flow and radiative heat transfer over an exponentially porous stretching sheet. <i>Applied Mathematics and Computation</i> , 2015, 269, 389-401.	1.4	29
21	Explicit and exact solutions to cubic Duffing and double-well Duffing equations. <i>Mathematical and Computer Modelling</i> , 2011, 53, 604-609.	2.0	27
22	Some exact solutions for MHD flow and heat transfer to modified second grade fluid with variable thermal conductivity in the presence of thermal radiation and heat generation/absorption. <i>Computers and Mathematics With Applications</i> , 2018, 76, 1515-1524.	1.4	25
23	Application of the variational iteration method to some nonlinear one-dimensional oscillations. <i>Meccanica</i> , 2008, 43, 75-79.	1.2	20
24	Optimal homotopy asymptotic method to large post-buckling deformation of MEMS. <i>MATEC Web of Conferences</i> , 2018, 148, 13003.	0.1	18
25	Dual Approximate Solutions of the Unsteady Viscous Flow over a Shrinking Cylinder with Optimal Homotopy Asymptotic Method. <i>Advances in Mathematical Physics</i> , 2014, 2014, 1-11.	0.4	17
26	Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder. <i>Symmetry</i> , 2020, 12, 1335.	1.1	17
27	Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders. <i>Mathematics</i> , 2020, 8, 1364.	1.1	17
28	An Iteration Procedure with Application to Van der Pol Oscillator. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009, 10, .	0.4	15
29	Optimal homotopy asymptotic method for polytropic spheres of the Lane-Emden type equation. <i>AIP Conference Proceedings</i> , 2019, . .	0.3	14
30	Application of the Optimal Auxiliary Functions Method to a Permanent Magnet Synchronous Generator. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2019, 20, 399-406.	0.4	14
31	Dynamics of SEIR epidemic model by optimal auxiliary functions method. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110949.	2.5	14
32	An optimal iteration method with application to the Thomas-Fermi equation. <i>Open Physics</i> , 2011, 9, .	0.8	13
33	Nonlinear dynamics of a wind turbine permanent magnet generator system in different wind profile conditions. <i>AIP Conference Proceedings</i> , 2017, . .	0.3	13
34	An effective analytical approach to nonlinear free vibration of elastically actuated microtubes. <i>Meccanica</i> , 2021, 56, 813-823.	1.2	13
35	Different Approximations to the Solution of Upper-Convected Maxwell Fluid over a Porous Stretching Plate. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-12.	0.3	12
36	Analytic Approximate Solution for Falkner-Skan Equation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-22.	0.8	10

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37	Construction of approximate periodic solutions to a modified van der Pol oscillator. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 4355-4362.	0.9	9
38	An Optimal Iteration Method for Strongly Nonlinear Oscillators. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-11.	0.4	9
39	A Solution Procedure Combining Analytical and Numerical Approaches to Investigate a Two-Degree-of-Freedom Vibro-Impact Oscillator. <i>Mathematics</i> , 2021, 9, 1374.	1.1	9
40	An optimal homotopy perturbation approach to thin film flow of a fourth grade fluid. , 2012, , .		8
41	Optimal homotopy perturbation method for nonlinear differential equations governing MHD Jeffery-Hamel flow with heat transfer problem. <i>Open Physics</i> , 2017, 15, 42-57.	0.8	8
42	An analytical approach to the dynamic analysis of a rotating electric machine. <i>Computers and Mathematics With Applications</i> , 2009, 58, 2320-2324.	1.4	7
43	Analytical approximate solutions to the Thomas-Fermi equation. <i>Open Physics</i> , 2014, 12, .	0.8	7
44	Comments on "A one-step optimal homotopy analysis method for nonlinear differential equations". <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 3735-3739.	1.7	6
45	Thin film flow of an Oldroyd 6-constant fluid over a moving belt: an analytic approximate solution. <i>Open Physics</i> , 2016, 14, 44-64.	0.8	6
46	The nonlinear thermomechanical vibration of a functionally graded beam on Winkler-Pasternak foundation. <i>MATEC Web of Conferences</i> , 2018, 148, 13004.	0.1	6
47	Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation. <i>Springer Proceedings in Physics</i> , 2018, , 41-48.	0.1	6
48	Optimal Parametric Iteration Method for Solving Multispecies Lotka-Volterra Equations. <i>Discrete Dynamics in Nature and Society</i> , 2012, 2012, 1-10.	0.5	5
49	Optimal Auxiliary Functions Method for viscous flow due to a stretching surface with partial slip. <i>Open Engineering</i> , 2018, 8, 261-274.	0.7	5
50	An Optimal Approach to Study the Nonlinear Behaviour of a Rotating Electrical Machine. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-10.	0.4	4
51	Optimal Variational Method for Truly Nonlinear Oscillators. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-6.	0.4	4
52	Optimal Homotopy Asymptotic Method for Viscous Boundary Layer Flow in Unbounded Domain. , 2014, , .		3
53	An approximate solution for the nonlinear Lane-Emden type equation on a semi-infinite domain. , 2012, , .		2
54	Optimal Homotopy Asymptotic Method for Solving a Nonlinear Problem in Elasticity. , 2012, , .		2

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55	Approximate Analytical Solutions to Nonlinear Vibrations of a Thin Elastic Plate. Applied Mechanics and Materials, 0, 430, 40-44.	0.2	2
56	Optimal Homotopy Asymptotic Approach to Self-Excited Vibrations. Applied Mechanics and Materials, 2013, 430, 27-31.	0.2	2
57	An Optimal Homotopy Asymptotic Approach to a Damped Dynamical System of a Rotating Electrical Machine. Applied Mechanics and Materials, 2015, 801, 202-206.	0.2	2
58	Application of the optimal homotopy asymptotic method to nonlinear Bingham fluid dampers. Open Physics, 2017, 15, 620-626.	0.8	2
59	An Approximate Analytical Solution of Transversal Oscillations with Quintic Nonlinearities. Springer Proceedings in Physics, 2021, , 41-49.	0.1	2
60	Analysis of Nonlinear Dynamic Behavior of a Rotating Electrical Machine Rotor-Bearing System Using Optimal Auxiliary Functions Method. Springer Proceedings in Mathematics and Statistics, 2018, , 159-168.	0.1	2
61	The Optimal Homotopy Asymptotic Method. , 2012, , 103-209.		1
62	Planar Stretching Flows with Partial Slip. , 2013, , .		1
63	Advances in Nonlinear Vibration. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.4	1
64	Approximate Solutions to a Cantilever Beam Using Optimal Homotopy Asymptotic Method. Applied Mechanics and Materials, 0, 430, 22-26.	0.2	1
65	Free Oscillations of a Nonlinear Oscillator with an Exponential Non-Viscous Damping. Applied Mechanics and Materials, 2015, 801, 38-42.	0.2	1
66	An Application of the Optimal Homotopy Asymptotic Method to Generalized Van der Pol Oscillator. Applied Mechanics and Materials, 0, 801, 33-37.	0.2	1
67	Viscous flow and heat transfer over an unsteady stretching surface. Open Physics, 2016, 14, 371-381.	0.8	1
68	Approximate analytic solutions for steady MHD flow and heat transfer of a third grade fluid in wire coating process with constant viscosity. AIP Conference Proceedings, 2017, , .	0.3	1
69	Viscous flow of an incompressible fluid over a curved stretching surface. AIP Conference Proceedings, 2018, , .	0.3	1
70	Optimal Auxiliary Functions Method for Nonlinear Vibration of Doubly Clamped Nanobeam Incorporating the Casimir Force. Springer Proceedings in Physics, 2021, , 51-58.	0.1	1
71	Analytic Approximate Solutions to the Boundary Layer Flow Equation over a Stretching Wall with Partial Slip at the Boundary. PLoS ONE, 2016, 11, e0149334.	1.1	1
72	Analytical Study of Nonlinear Vibration in a Rub-Impact Jeffcott Rotor. Energies, 2021, 14, 8298.	1.6	1

#	ARTICLE	IF	CITATIONS
73	Optimal homotopy perturbation method for solving a nonlinear problem in elasticity. , 2012, , .		0
74	The Flow in a Viscous Fluid over an Unsteady Stretching Surface. , 2015, , .		0
75	On the Open Problem: An Optimal Analytical Solution for Duffing Oscillator. Applied Mechanics and Materials, 0, 801, 43-47.	0.2	0
76	Analytic solution of the static pull-in instability in MEMS considering Casimir force. AIP Conference Proceedings, 2018, , .	0.3	0
77	Optimal homotopy asymptotic method in the study of energy harvesting problems. AIP Conference Proceedings, 2019, , .	0.3	0
78	Analytic approximate solutions to electrically actuated MEMS. AIP Conference Proceedings, 2020, , .	0.3	0
79	Oscillations of a Pendulum Wrapping on Two Cylinders. , 2021, , 41-61.		0
80	The Optimal Auxiliary Functions Method. , 2021, , 11-16.		0
81	The Second Alternative to the Optimal Auxiliary Functions Method. , 2021, , 367-416.		0
82	The Nonlinear Thermomechanical Vibration of a Functionally Graded Beam (FGB) on Winkler-Pasternak Foundation. , 2021, , 109-122.		0
83	The First Alternative of the Optimal Auxiliary Functions Method. , 2021, , 19-40.		0
84	Viscous Flow Due to a Stretching Surface with Partial Slip. , 2021, , 223-243.		0
85	Dynamic Analysis of a Rotating Electrical Machine Rotor-Bearing System. , 2021, , 159-165.		0
86	Investigation of a Permanent Magnet Synchronous Generator. , 2021, , 167-176.		0
87	Some Exact Solutions for Nonlinear Dynamical Systems by Means of the Optimal Auxiliary Functions Method. , 2021, , 435-479.		0
88	Transversal Oscillations of a Beam with Quintic Nonlinearities. , 2021, , 79-86.		0
89	Vibration of Nonlinear Nonlocal Elastic Column with Initial Imperfection. , 2021, , 93-98.		0
90	Free Vibration of Tapered Beams. , 2021, , 153-157.		0

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91	Axisymmetric MHD Flow and Heat Transfer to Modified Second Grade Fluid. , 2021, , 245-265.		0
92	Nonlinear Vibrations of Doubly Clamped Nanobeam Incorporating the Casimir Force. , 2021, , 71-78.		0
93	The Optimal Variational Iteration Method. , 2012, , 259-311.		0
94	The Second Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 69-390.		0
95	The First Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 23-68.		0
96	The Third Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 391-465.		0
97	Incompressible boundary layer flow of nanofluid over a convectively heated stretching sheet. AIP Conference Proceedings, 2020, , .	0.3	0
98	Approximate Analytical Solutions to Nonlinear Oscillations of Horizontally Supported Jeffcott Rotor. Energies, 2022, 15, 1122.	1.6	0
99	Oscillations of a nonlinear energy harvester. AIP Conference Proceedings, 2022, , .	0.3	0
100	Dynamics of a piezoelectric cantilever for energy harvesting. AIP Conference Proceedings, 2022, , .	0.3	0