

Vasile Marinca

List of Publications by Year in descending order

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100
papers

1,923
citations

361296

20
h-index

276775

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113
all docs

113
docs citations

113
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximate Analytical Solutions to Nonlinear Oscillations of Horizontally Supported Jeffcott Rotor. <i>Energies</i> , 2022, 15, 1122.	1.6	0
2	Oscillations of a nonlinear energy harvester. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
3	Dynamics of a piezoelectric cantilever for energy harvesting. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
4	An effective analytical approach to nonlinear free vibration of elastically actuated microtubes. <i>Meccanica</i> , 2021, 56, 813-823.	1.2	13
5	Oscillations of a Pendulum Wrapping on Two Cylinders. , 2021, , 41-61.		0
6	The Optimal Auxiliary Functions Method. , 2021, , 11-16.		0
7	The Second Alternative to the Optimal Auxiliary Functions Method. , 2021, , 367-416.		0
8	The Nonlinear Thermomechanical Vibration of a Functionally Graded Beam (FGB) on Winkler-Pasternak Foundation. , 2021, , 109-122.		0
9	The First Alternative of the Optimal Auxiliary Functions Method. , 2021, , 19-40.		0
10	Viscous Flow Due to a Stretching Surface with Partial Slip. , 2021, , 223-243.		0
11	Dynamic Analysis of a Rotating Electrical Machine Rotor-Bearing System. , 2021, , 159-165.		0
12	Investigation of a Permanent Magnet Synchronous Generator. , 2021, , 167-176.		0
13	Some Exact Solutions for Nonlinear Dynamical Systems by Means of the Optimal Auxiliary Functions Method. , 2021, , 435-479.		0
14	Transversal Oscillations of a Beam with Quintic Nonlinearities. , 2021, , 79-86.		0
15	Vibration of Nonlinear Nonlocal Elastic Column with Initial Imperfection. , 2021, , 93-98.		0
16	Free Vibration of Tapered Beams. , 2021, , 153-157.		0
17	Axisymmetric MHD Flow and Heat Transfer to Modified Second Grade Fluid. , 2021, , 245-265.		0
18	Nonlinear Vibrations of Doubly Clamped Nanobeam Incorporating the Casimir Force. , 2021, , 71-78.		0

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19	Dynamics of SEIR epidemic model by optimal auxiliary functions method. Chaos, Solitons and Fractals, 2021, 147, 110949.	2.5	14
20	A Solution Procedure Combining Analytical and Numerical Approaches to Investigate a Two-Degree-of-Freedom Vibro-Impact Oscillator. Mathematics, 2021, 9, 1374.	1.1	9
21	An Approximate Analytical Solution of Transversal Oscillations with Quintic Nonlinearities. Springer Proceedings in Physics, 2021, , 41-49.	0.1	2
22	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
23	Analytical Study of Nonlinear Vibration in a Rub-Impact Jeffcott Rotor. Energies, 2021, 14, 8298.	1.6	1
24	Analytic approximate solutions to electrically actuated MEMS. AIP Conference Proceedings, 2020, , .	0.3	0
25	An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System. Mathematics, 2020, 8, 1083.	1.1	32
26	Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder. Symmetry, 2020, 12, 1335.	1.1	17
27	Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders. Mathematics, 2020, 8, 1364.	1.1	17
28	Incompressible boundary layer flow of nanofluid over a convectively heated stretching sheet. AIP Conference Proceedings, 2020, , .	0.3	0
29	Optimal homotopy asymptotic method in the study of energy harvesting problems. AIP Conference Proceedings, 2019, , .	0.3	0
30	Optimal homotopy asymptotic method for polytropic spheres of the Lane-Emden type equation. AIP Conference Proceedings, 2019, , .	0.3	14
31	Application of the Optimal Auxiliary Functions Method to a Permanent Magnet Synchronous Generator. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 399-406.	0.4	14
32	Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust. Energies, 2019, 12, 915.	1.6	52
33	The nonlinear thermomechanical vibration of a functionally graded beam on Winkler-Pasternak foundation. MATEC Web of Conferences, 2018, 148, 13004.	0.1	6
34	Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation. Springer Proceedings in Physics, 2018, , 41-48.	0.1	6
35	Viscous flow of an incompressible fluid over a curved stretching surface. AIP Conference Proceedings, 2018, , .	0.3	1
36	Optimal Auxiliary Functions Method for viscous flow due to a stretching surface with partial slip. Open Engineering, 2018, 8, 261-274.	0.7	5

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37	Analytic solution of the static pull-in instability in MEMS considering Casimir force. AIP Conference Proceedings, 2018, , .	0.3	0
38	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. Computers and Mathematics With Applications, 2018, 76, 1515-1524.	1.4	25
39	Optimal homotopy asymptotic method to large post-buckling deformation of MEMS. MATEC Web of Conferences, 2018, 148, 13003.	0.1	18
40	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
41	Optimal homotopy perturbation method for nonlinear differential equations governing MHD Jeffery-Hamel flow with heat transfer problem. Open Physics, 2017, 15, 42-57.	0.8	8
42	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
43	Nonlinear dynamics of a wind turbine permanent magnet generator system in different wind profile conditions. AIP Conference Proceedings, 2017, , .	0.3	13
44	Application of the optimal homotopy asymptotic method to nonlinear Bingham fluid dampers. Open Physics, 2017, 15, 620-626.	0.8	2
45	Viscous flow and heat transfer over an unsteady stretching surface. Open Physics, 2016, 14, 371-381.	0.8	1
46	Thin film flow of an Oldroyd 6-constant fluid over a moving belt: an analytic approximate solution. Open Physics, 2016, 14, 44-64.	0.8	6
47	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
48	Free Oscillations of a Nonlinear Oscillator with an Exponential Non-Viscous Damping. Applied Mechanics and Materials, 2015, 801, 38-42.	0.2	1
49	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
50	The Flow in a Viscous Fluid over an Unsteady Stretching Surface. , 2015, , .		0
51	The Optimal Homotopy Asymptotic Method. , 2015, , .		57
52	Approximate solutions for steady boundary layer MHD viscous flow and radiative heat transfer over an exponentially porous stretching sheet. Applied Mathematics and Computation, 2015, 269, 389-401.	1.4	29
53	An analytical approach to non-linear dynamical model of a permanent magnet synchronous generator. Wind Energy, 2015, 18, 1657-1670.	1.9	38
54	The Second Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 69-390.		0

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55	The First Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 23-68.		0
56	The Third Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 391-465.		0
57	Dual Approximate Solutions of the Unsteady Viscous Flow over a Shrinking Cylinder with Optimal Homotopy Asymptotic Method. Advances in Mathematical Physics, 2014, 2014, 1-11.	0.4	17
58	Analytic Approximate Solution for Falkner-Skan Equation. Scientific World Journal, The, 2014, 2014, 1-22.	0.8	10
59	Different Approximations to the Solution of Upper-Convected Maxwell Fluid over a Porous Stretching Plate. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.3	12
60	Optimal Homotopy Asymptotic Method for Viscous Boundary Layer Flow in Unbounded Domain. , 2014, , .		3
61	The Optimal Homotopy Asymptotic Method for solving Blasius equation. Applied Mathematics and Computation, 2014, 231, 134-139.	1.4	56
62	On the flow of a Walters-type Bâ€™ viscoelastic fluid in a vertical channel with porous wall. International Journal of Heat and Mass Transfer, 2014, 79, 146-165.	2.5	35
63	Analytical approximate solutions to the Thomas-Fermi equation. Open Physics, 2014, 12, .	0.8	7
64	Planar Stretching Flows with Partial Slip. , 2013, , .		1
65	Advances in Nonlinear Vibration. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.4	1
66	Optimal Homotopy Asymptotic Approach to Self-Excited Vibrations. Applied Mechanics and Materials, 2013, 430, 27-31.	0.2	2
67	Optimal Variational Method for Truly Nonlinear Oscillators. Journal of Applied Mathematics, 2013, 2013, 1-6.	0.4	4
68	Optimal Parametric Iteration Method for Solving Multispecies Lotka-Volterra Equations. Discrete Dynamics in Nature and Society, 2012, 2012, 1-10.	0.5	5
69	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
70	An Optimal Approach to Study the Nonlinear Behaviour of a Rotating Electrical Machine. Journal of Applied Mathematics, 2012, 2012, 1-10.	0.4	4
71	An Optimal Iteration Method for Strongly Nonlinear Oscillators. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.4	9
72	Optimal homotopy perturbation method for solving a nonlinear problem in elasticity. , 2012, , .		0

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73	An optimal homotopy perturbation approach to thin film flow of a fourth grade fluid. , 2012, , .		8
74	An approximate solution for the nonlinear Lane-Emden type equation on a semi-infinite domain. , 2012, , .		2
75	Optimal Homotopy Asymptotic Method for Solving a Nonlinear Problem in Elasticity. , 2012, , .		2
76	The Optimal Homotopy Asymptotic Method. , 2012, , 103-209.		1
77	The Optimal Variational Iteration Method. , 2012, , 259-311.		0
78	Nonlinear Dynamical Systems in Engineering. , 2011, , .		72
79	An optimal iteration method with application to the Thomas-Fermi equation. Open Physics, 2011, 9, .	0.8	13
80	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
81	Explicit and exact solutions to cubic Duffing and double-well Duffing equations. Mathematical and Computer Modelling, 2011, 53, 604-609.	2.0	27
82	An Optimal Homotopy Asymptotic Approach Applied to Nonlinear MHD Jeffery-Hamel Flow. Mathematical Problems in Engineering, 2011, 2011, 1-16.	0.6	29
83	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
84	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
85	Construction of approximate periodic solutions to a modified van der Pol oscillator. Nonlinear Analysis: Real World Applications, 2010, 11, 4355-4362.	0.9	9
86	Comments on "A one-step optimal homotopy analysis method for nonlinear differential equations". Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3735-3739.	1.7	6
87	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
88	An analytical approach to the dynamic analysis of a rotating electric machine. Computers and Mathematics With Applications, 2009, 58, 2320-2324.	1.4	7
89	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
90	An Iteration Procedure with Application to Van der Pol Oscillator. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	0.4	15

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91	Application of the variational iteration method to some nonlinear one-dimensional oscillations. <i>Meccanica</i> , 2008, 43, 75-79.	1.2	20
92	Periodic solutions of Duffing equation with strong non-linearity. <i>Chaos, Solitons and Fractals</i> , 2008, 37, 144-149.	2.5	29
93	Application of Optimal Homotopy Asymptotic Method for solving nonlinear equations arising in heat transfer. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 710-715.	2.9	306
94	Optimal homotopy asymptotic method with application to thin film flow. <i>Open Physics</i> , 2008, 6, .	0.8	124
95	Periodic solutions for some strongly nonlinear oscillations by Heâ€™s variational iteration method. <i>Computers and Mathematics With Applications</i> , 2007, 54, 1188-1196.	1.4	36
96	A modified iteration perturbation method for some nonlinear oscillation problems. <i>Acta Mechanica</i> , 2006, 184, 231-242.	1.1	62
97	Approximate Analytical Solutions to Nonlinear Vibrations of a Thin Elastic Plate. <i>Applied Mechanics and Materials</i> , 0, 430, 40-44.	0.2	2
98	Approximate Solutions to a Cantilever Beam Using Optimal Homotopy Asymptotic Method. <i>Applied Mechanics and Materials</i> , 0, 430, 22-26.	0.2	1
99	An Application of the Optimal Homotopy Asymptotic Method to Generalized Van der Pol Oscillator. <i>Applied Mechanics and Materials</i> , 0, 801, 33-37.	0.2	1
100	On the Open Problem: An Optimal Analytical Solution for Duffing Oscillator. <i>Applied Mechanics and Materials</i> , 0, 801, 43-47.	0.2	0