Nicolae Herisanu

List of Publications by Year
in descending order

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95	1,771	394421	302126
papers	citations	19 h-index	39 g-index

110	110	110	635
all docs	docs citations	times ranked	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.	5.6	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.	2.7	232
3	Optimal homotopy asymptotic method with application to thin film flow. Open Physics, 2008, 6, .	1.7	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.	3.9	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.	2.0	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.	2.7	70
8	A modified iteration perturbation method for some nonlinear oscillation problems. Acta Mechanica, 2006, 184, 231-242.	2.1	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.	2.2	56
11	Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust. Energies, 2019, 12, 915.	3.1	52
12	Nonlinear dynamic analysis of an electrical machine rotorâ€“bearing system by the optimal homotopy perturbation method. Computers and Mathematics With Applications, 2011, 61, 2019-2024.	2.7	44
13	An analytical approach to nonâ€linear dynamical model of a permanent magnet synchronous generator. Wind Energy, 2015, 18, 1657-1670.	4.2	38
14	Periodic solutions for some strongly nonlinear oscillations by Heâ€™s variational iteration method. Computers and Mathematics With Applications, 2007, 54, 1188-1196.	2.7	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.	1.5	35
16	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.	4.8	35
17	An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System. Mathematics, 2020, 8, 1083.	2.2	32
18	Periodic solutions of Duffing equation with strong non-linearity. Chaos, Solitons and Fractals, 2008, 37, 144-149.	5.1	29

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19	An Optimal Homotopy Asymptotic Approach Applied to Nonlinear MHD Jeffery-Hamel Flow. Mathematical Problems in Engineering, 2011, 2011, 1-16.	1.1	29
20	Explicit and exact solutions to cubic Duffing and double-well Duffing equations. Mathematical and Computer Modelling, 2011, 53, 604-609.	2.0	27
21	Application of the variational iteration method to some nonlinear one-dimensional oscillations. Meccanica, 2008, 43, 75-79.	2.0	20
22	Optimal homotopy asymptotic method to large post-buckling deformation of MEMS. MATEC Web of Conferences, 2018, 148, 13003.	0.2	18
23	Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder. Symmetry, 2020, 12, 1335.	2.2	17
24	Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders. Mathematics, 2020, 8, 1364.	2.2	17
25	Optimal homotopy asymptotic method for polytrophic spheres of the Lane-Emden type equation. AIP Conference Proceedings, 2019, , .	0.4	14
26	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.	1.0	14
27	An optimal iteration method with application to the Thomas-Fermi equation. Open Physics, 2011, 9, .	1.7	13
28	Nonlinear dynamics of a wind turbine permanent magnet generator system in different wind profile conditions. AIP Conference Proceedings, 2017, , .	0.4	13
29	An effective analytical approach to nonlinear free vibration of elastically actuated microtubes. Meccanica, 2021, 56, 813-823.	2.0	13
30	An Optimal Iteration Method for Strongly Nonlinear Oscillators. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.9	9
31	Some Effects of Rubberized Asphalt on Decreasing the Phonic Pollution. Applied Mechanics and Materials, 0, 430, 257-261.	0.2	9
32	A Solution Procedure Combining Analytical and Numerical Approaches to Investigate a Two-Degree-of-Freedom Vibro-Impact Oscillator. Mathematics, 2021, 9, 1374.	2.2	9
33	An analytical approach to the dynamic analysis of a rotating electric machine. Computers and Mathematics With Applications, 2009, 58, 2320-2324.	2.7	7
34	Comments on â€œA one-step optimal homotopy analysis method for nonlinear differential equationsâ€• Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3735-3739.	3.3	6
35	The nonlinear thermomechanical vibration of a functionally graded beam on Winkler-Pasternak foundation. MATEC Web of Conferences, 2018, 148, 13004.	0.2	6
36	Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation. Springer Proceedings in Physics, 2018, , 41-48.	0.2	6

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37	Optimal Parametric Iteration Method for Solving Multispecies Lotka-Volterra Equations. Discrete Dynamics in Nature and Society, 2012, 2012, 1-10.	0.9	5
38	An Optimal Approach to Study the Nonlinear Behaviour of a Rotating Electrical Machine. Journal of Applied Mathematics, 2012, 2012, 1-10.	0.9	4
39	Optimal Variational Method for Truly Nonlinear Oscillators. Journal of Applied Mathematics, 2013, 2013, 1-6.	0.9	4
40	Influence of Vibrations on Grain Harvesters Operator. Applied Mechanics and Materials, 0, 430, 290-296.	0.2	3
41	An approximate solution for the nonlinear Lane-Emden type equation on a semi-infinite domain. , 2012, , .		2
42	Optimal Homotopy Asymptotic Approach to Self-Excited Vibrations. Applied Mechanics and Materials, 2013, 430, 27-31.	0.2	2
43	Noise Control in an Industrial Hall. Applied Mechanics and Materials, 2013, 430, 251-256.	0.2	2
44	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
45	An Approximate Analytical Solution of Transversal Oscillations with Quintic Nonlinearities. Springer Proceedings in Physics, 2021, , 41-49.	0.2	2
46	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.	0.2	2
47	Selection of Measurement Strategy for the Assessment of Long-Term Environmental Noise Indicators Using Multi-criteria Optimization. Springer Proceedings in Physics, 2018, , 77-82.	0.2	2
48	The Optimal Homotopy Asymptotic Method. , 2012, , 103-209.		1
49	Advances in Nonlinear Vibration. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.9	1
50	Approximate Solutions to a Cantilever Beam Using Optimal Homotopy Asymptotic Method. Applied Mechanics and Materials, 0, 430, 22-26.	0.2	1
51	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
52	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, , .	0.4	1
53	Viscous flow of an incompressible fluid over a curved stretching surface. AIP Conference Proceedings, 2018, , .	0.4	1
54	A new analytical approach to investigate human gait dynamics. ITM Web of Conferences, 2019, 29, 02004.	0.5	1

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55	Vibration of the Biomass Boiler Tube Excited with Impact of the Cleaning Device. Mathematics, 2020, 8, 1519.	2.2	1
56	Optimal Auxiliary Functions Method for Nonlinear Vibration of Doubly Clamped Nanobeam Incorporating the Casimir Force. Springer Proceedings in Physics, 2021, , 51-58.	0.2	1
57	Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering - 4. AIP Conference Proceedings, 2020, , .	0.4	1
58	Angular Momentum About the Total Body Center of Mass Computed at Different Speeds. Springer Proceedings in Physics, 2021, , 227-233.	0.2	1
59	Analytical Study of Nonlinear Vibration in a Rub-Impact Jeffcott Rotor. Energies, 2021, 14, 8298.	3.1	1
60	The Method of Harmonic Balance. , 2012, , 31-45.		0
61	The Optimal Homotopy Perturbation Method. , 2012, , 211-257.		0
62	Delimiting and Protecting Quiet Areas in an Urban Environment. Applied Mechanics and Materials, 0, 801, 66-70.	0.2	0
63	Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering. AIP Conference Proceedings, 2017, , .	0.4	0
64	Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering. AIP Conference Proceedings, 2018, , .	0.4	0
65	Analytic solution of the static pull-in instability in MEMS considering Casimir force. AIP Conference Proceedings, 2018, , .	0.4	0
66	Optimal homotopy asymptotic method in the study of energy harvesting problems. AIP Conference Proceedings, 2019, , .	0.4	0
67	Optimal Homotopy Asymptotic Approaches to Nonlinear Dynamical Systems in Engineering - III. AIP Conference Proceedings, 2019, , .	0.4	0
68	Analytic approximate solutions to electrically actuated MEMS. AIP Conference Proceedings, 2020, , .	0.4	0
69	Oscillations of a Pendulum Wrapping on Two Cylinders. , 2021, , 41-61.		0
70	The Optimal Auxiliary Functions Method. , 2021, , 11-16.		0
71	The Second Alternative to the Optimal Auxiliary Functions Method. , 2021, , 367-416.		0
72	The Nonlinear Thermomechanical Vibration of a Functionally Graded Beam (FGB) on Winkler-Pasternak Foundation. , 2021, , 109-122.		0

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73	The First Alternative of the Optimal Auxiliary Functions Method. , 2021, , 19-40.		0
74	Viscous Flow Due to a Stretching Surface with Partial Slip. , 2021, , 223-243.		0
75	Dynamic Analysis of a Rotating Electrical Machine Rotor-Bearing System. , 2021, , 159-165.		0
76	Investigation of a Permanent Magnet Synchronous Generator. , 2021, , 167-176.		0
77	Some Exact Solutions for Nonlinear Dynamical Systems by Means of the Optimal Auxiliary Functions Method. , 2021, , 435-479.		0
78	Transversal Oscillations of a Beam with Quintic Nonlinearities. , 2021, , 79-86.		0
79	Vibration of Nonlinear Nonlocal Elastic Column with Initial Imperfection. , 2021, , 93-98.		0
80	Free Vibration of Tapered Beams. , 2021, , 153-157.		0
81	Nonlinear Vibrations of Doubly Clamped Nanobeam Incorporating the Casimir Force. , 2021, , 71-78.		0
82	The Method of Multiple Scales. , 2012, , 83-102.		0
83	Optimal Parametric Iteration Method. , 2012, , 313-384.		0
84	The Optimal Variational Iteration Method. , 2012, , 259-311.		0
85	The Second Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 69-390.		0
86	The First Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 23-68.		0
87	The Third Alternative of the Optimal Homotopy Asymptotic Method. , 2015, , 391-465.		0
88	Incompressible boundary layer flow of nanofluid over a convectively heated stretching sheet. AIP Conference Proceedings, 2020, , .	0.4	0
89	Some aspects of the implementation of actions plans for noise prevention and reduction in urban areas. IMK-14 - Istrazivanje I Razvoj, 2021, 27, 113-118.	0.0	0
90	Approximate Analytical Solutions to Nonlinear Oscillations of Horizontally Supported Jeffcott Rotor. Energies, 2022, 15, 1122.	3.1	0

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91	A biodynamic multibody system. OHAM solution. AIP Conference Proceedings, 2022, , .	0.4	0
92	Preface of the â€œOptimal Homotopy Asymptotic Approach to Nonlinear Dynamical Systems in Engineering-5. AIP Conference Proceedings, 2022, , .	0.4	0
93	Oscillations of a nonlinear energy harvester. AIP Conference Proceedings, 2022, , .	0.4	0
94	Dynamics of a piezoelectric cantilever for energy harvesting. AIP Conference Proceedings, 2022, , .	0.4	0
95	An optimal analytical solution to a simple pendulum with air resistance. AIP Conference Proceedings, 2022, , .	0.4	0