

# Nicolae Herisanu

## List of Publications by Year in descending order

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95  
papers

1,771  
citations

394421

19  
h-index

302126

39  
g-index

110  
all docs

110  
docs citations

110  
times ranked

635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximate Analytical Solutions to Nonlinear Oscillations of Horizontally Supported Jeffcott Rotor. <i>Energies</i> , 2022, 15, 1122.	3.1	0
2	A biodynamic multibody system. OHAM solution. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
3	Preface of the "Optimal Homotopy Asymptotic Approach to Nonlinear Dynamical Systems in Engineering-5. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
4	Oscillations of a nonlinear energy harvester. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
5	Dynamics of a piezoelectric cantilever for energy harvesting. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
6	An optimal analytical solution to a simple pendulum with air resistance. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
7	An effective analytical approach to nonlinear free vibration of elastically actuated microtubes. <i>Meccanica</i> , 2021, 56, 813-823.	2.0	13
8	Oscillations of a Pendulum Wrapping on Two Cylinders. , 2021, , 41-61.		0
9	The Optimal Auxiliary Functions Method. , 2021, , 11-16.		0
10	The Second Alternative to the Optimal Auxiliary Functions Method. , 2021, , 367-416.		0
11	The Nonlinear Thermomechanical Vibration of a Functionally Graded Beam (FGB) on Winkler-Pasternak Foundation. , 2021, , 109-122.		0
12	The First Alternative of the Optimal Auxiliary Functions Method. , 2021, , 19-40.		0
13	Viscous Flow Due to a Stretching Surface with Partial Slip. , 2021, , 223-243.		0
14	Dynamic Analysis of a Rotating Electrical Machine Rotor-Bearing System. , 2021, , 159-165.		0
15	Investigation of a Permanent Magnet Synchronous Generator. , 2021, , 167-176.		0
16	Some Exact Solutions for Nonlinear Dynamical Systems by Means of the Optimal Auxiliary Functions Method. , 2021, , 435-479.		0
17	Transversal Oscillations of a Beam with Quintic Nonlinearities. , 2021, , 79-86.		0
18	Vibration of Nonlinear Nonlocal Elastic Column with Initial Imperfection. , 2021, , 93-98.		0

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19	Free Vibration of Tapered Beams. , 2021, , 153-157.		0
20	Nonlinear Vibrations of Doubly Clamped Nanobeam Incorporating the Casimir Force. , 2021, , 71-78.		0
21	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
22	An Approximate Analytical Solution of Transversal Oscillations with Quintic Nonlinearities. Springer Proceedings in Physics, 2021, , 41-49.	0.2	2
23	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
24	Angular Momentum About the Total Body Center of Mass Computed at Different Speeds. Springer Proceedings in Physics, 2021, , 227-233.	0.2	1
25	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
26	Analytical Study of Nonlinear Vibration in a Rub-Impact Jeffcott Rotor. Energies, 2021, 14, 8298.	3.1	1
27	Analytic approximate solutions to electrically actuated MEMS. AIP Conference Proceedings, 2020, , .	0.4	0
28	An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System. Mathematics, 2020, 8, 1083.	2.2	32
29	Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder. Symmetry, 2020, 12, 1335.	2.2	17
30	Vibration of the Biomass Boiler Tube Excited with Impact of the Cleaning Device. Mathematics, 2020, 8, 1519.	2.2	1
31	Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders. Mathematics, 2020, 8, 1364.	2.2	17
32	Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering - 4. AIP Conference Proceedings, 2020, , .	0.4	1
33	Incompressible boundary layer flow of nanofluid over a convectively heated stretching sheet. AIP Conference Proceedings, 2020, , .	0.4	0
34	Optimal homotopy asymptotic method in the study of energy harvesting problems. AIP Conference Proceedings, 2019, , .	0.4	0
35	Optimal homotopy asymptotic method for polytropic spheres of the Lane-Emden type equation. AIP Conference Proceedings, 2019, , .	0.4	14
36	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

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37	Optimal Homotopy Asymptotic Approaches to Nonlinear Dynamical Systems in Engineering - III. AIP Conference Proceedings, 2019, , .	0.4	0
38	Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust. Energies, 2019, 12, 915.	3.1	52
39	A new analytical approach to investigate human gait dynamics. ITM Web of Conferences, 2019, 29, 02004.	0.5	1
40	The nonlinear thermomechanical vibration of a functionally graded beam on Winkler-Pasternak foundation. MATEC Web of Conferences, 2018, 148, 13004.	0.2	6
41	Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation. Springer Proceedings in Physics, 2018, , 41-48.	0.2	6
42	Viscous flow of an incompressible fluid over a curved stretching surface. AIP Conference Proceedings, 2018, , .	0.4	1
43	Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering. AIP Conference Proceedings, 2018, , .	0.4	0
44	Analytic solution of the static pull-in instability in MEMS considering Casimir force. AIP Conference Proceedings, 2018, , .	0.4	0
45	Optimal homotopy asymptotic method to large post-buckling deformation of MEMS. MATEC Web of Conferences, 2018, 148, 13003.	0.2	18
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	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
49	Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering. AIP Conference Proceedings, 2017, , .	0.4	0
50	Nonlinear dynamics of a wind turbine permanent magnet generator system in different wind profile conditions. AIP Conference Proceedings, 2017, , .	0.4	13
51	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
52	The Optimal Homotopy Asymptotic Method. , 2015, , .		57
53	An analytical approach to non-linear dynamical model of a permanent magnet synchronous generator. Wind Energy, 2015, 18, 1657-1670.	4.2	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	The Optimal Homotopy Asymptotic Method for solving Blasius equation. Applied Mathematics and Computation, 2014, 231, 134-139.	2.2	56
58	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
59	Advances in Nonlinear Vibration. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.9	1
60	Optimal Homotopy Asymptotic Approach to Self-Excited Vibrations. Applied Mechanics and Materials, 2013, 430, 27-31.	0.2	2
61	Noise Control in an Industrial Hall. Applied Mechanics and Materials, 2013, 430, 251-256.	0.2	2
62	Optimal Variational Method for Truly Nonlinear Oscillators. Journal of Applied Mathematics, 2013, 2013, 1-6.	0.9	4
63	Optimal Parametric Iteration Method for Solving Multispecies Lotka-Volterra Equations. Discrete Dynamics in Nature and Society, 2012, 2012, 1-10.	0.9	5
64	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
65	An Optimal Approach to Study the Nonlinear Behaviour of a Rotating Electrical Machine. Journal of Applied Mathematics, 2012, 2012, 1-10.	0.9	4
66	An Optimal Iteration Method for Strongly Nonlinear Oscillators. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.9	9
67	An approximate solution for the nonlinear Lane-Emden type equation on a semi-infinite domain. , 2012, , .		2
68	The Method of Harmonic Balance. , 2012, , 31-45.		0
69	The Optimal Homotopy Perturbation Method. , 2012, , 211-257.		0
70	The Optimal Homotopy Asymptotic Method. , 2012, , 103-209.		1
71	The Method of Multiple Scales. , 2012, , 83-102.		0
72	Optimal Parametric Iteration Method. , 2012, , 313-384.		0

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73	The Optimal Variational Iteration Method. , 2012, , 259-311.		0
74	Nonlinear Dynamical Systems in Engineering. , 2011, , .		72
75	An optimal iteration method with application to the Thomas-Fermi equation. Open Physics, 2011, 9, .	1.7	13
76	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.	2.7	44
77	Explicit and exact solutions to cubic Duffing and double-well Duffing equations. Mathematical and Computer Modelling, 2011, 53, 604-609.	2.0	27
78	An Optimal Homotopy Asymptotic Approach Applied to Nonlinear MHD Jeffery-Hamel Flow. Mathematical Problems in Engineering, 2011, 2011, 1-16.	1.1	29
79	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
80	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
81	Comments on "A one-step optimal homotopy analysis method for nonlinear differential equations" Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3735-3739.	3.3	6
82	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
83	An analytical approach to the dynamic analysis of a rotating electric machine. Computers and Mathematics With Applications, 2009, 58, 2320-2324.	2.7	7
84	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
85	Application of the variational iteration method to some nonlinear one-dimensional oscillations. Meccanica, 2008, 43, 75-79.	2.0	20
86	Periodic solutions of Duffing equation with strong non-linearity. Chaos, Solitons and Fractals, 2008, 37, 144-149.	5.1	29
87	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
88	Optimal homotopy asymptotic method with application to thin film flow. Open Physics, 2008, 6, .	1.7	124
89	Periodic solutions for some strongly nonlinear oscillations by He's variational iteration method. Computers and Mathematics With Applications, 2007, 54, 1188-1196.	2.7	36
90	A modified iteration perturbation method for some nonlinear oscillation problems. Acta Mechanica, 2006, 184, 231-242.	2.1	62

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91	Some Effects of Rubberized Asphalt on Decreasing the Phonic Pollution. Applied Mechanics and Materials, 0, 430, 257-261.	0.2	9
92	Influence of Vibrations on Grain Harvesters Operator. Applied Mechanics and Materials, 0, 430, 290-296.	0.2	3
93	Approximate Solutions to a Cantilever Beam Using Optimal Homotopy Asymptotic Method. Applied Mechanics and Materials, 0, 430, 22-26.	0.2	1
94	Delimiting and Protecting Quiet Areas in an Urban Environment. Applied Mechanics and Materials, 0, 801, 66-70.	0.2	0
95	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