

Nicolae Herisanu

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

1,771
citations

394286

19
h-index

302012

39
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110
all docs

110
docs citations

110
times ranked

635
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | An optimal homotopy asymptotic method applied to the steady flow of a fourth-grade fluid past a porous plate. <i>Applied Mathematics Letters</i> , 2009, 22, 245-251. | 1.5 | 232 |
| 3 | Optimal homotopy asymptotic method with application to thin film flow. <i>Open Physics</i> , 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. <i>Journal of Sound and Vibration</i> , 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. <i>Meccanica</i> , 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. <i>Computers and Mathematics With Applications</i> , 2010, 60, 1607-1615. | 1.4 | 70 |
| 8 | A modified iteration perturbation method for some nonlinear oscillation problems. <i>Acta Mechanica</i> , 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. <i>Applied Mathematics and Computation</i> , 2014, 231, 134-139. | 1.4 | 56 |
| 11 | Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust. <i>Energies</i> , 2019, 12, 915. | 1.6 | 52 |
| 12 | Nonlinear dynamic analysis of an electrical machine rotor-bearing system by the optimal homotopy perturbation method. <i>Computers and Mathematics With Applications</i> , 2011, 61, 2019-2024. | 1.4 | 44 |
| 13 | An analytical approach to nonlinear dynamical model of a permanent magnet synchronous generator. <i>Wind Energy</i> , 2015, 18, 1657-1670. | 1.9 | 38 |
| 14 | Periodic solutions for some strongly nonlinear oscillations by He's variational iteration method. <i>Computers and Mathematics With Applications</i> , 2007, 54, 1188-1196. | 1.4 | 36 |
| 15 | Optimal Homotopy Perturbation Method for a Non-Conservative Dynamical System of a Rotating Electrical Machine. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2012, 67, 509-516. | 0.7 | 35 |
| 16 | On the flow of a Walters-type viscoelastic fluid in a vertical channel with porous wall. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 146-165. | 2.5 | 35 |
| 17 | An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System. <i>Mathematics</i> , 2020, 8, 1083. | 1.1 | 32 |
| 18 | Periodic solutions of Duffing equation with strong non-linearity. <i>Chaos, Solitons and Fractals</i> , 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 | 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 |
| 21 | Application of the variational iteration method to some nonlinear one-dimensional oscillations. <i>Meccanica</i> , 2008, 43, 75-79. | 1.2 | 20 |
| 22 | Optimal homotopy asymptotic method to large post-buckling deformation of MEMS. <i>MATEC Web of Conferences</i> , 2018, 148, 13003. | 0.1 | 18 |
| 23 | Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder. <i>Symmetry</i> , 2020, 12, 1335. | 1.1 | 17 |
| 24 | Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders. <i>Mathematics</i> , 2020, 8, 1364. | 1.1 | 17 |
| 25 | Optimal homotopy asymptotic method for polytropic spheres of the Lane-Emden type equation. <i>AIP Conference Proceedings</i> , 2019, , . | 0.3 | 14 |
| 26 | 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 |
| 27 | An optimal iteration method with application to the Thomas-Fermi equation. <i>Open Physics</i> , 2011, 9, . | 0.8 | 13 |
| 28 | Nonlinear dynamics of a wind turbine permanent magnet generator system in different wind profile conditions. <i>AIP Conference Proceedings</i> , 2017, , . | 0.3 | 13 |
| 29 | An effective analytical approach to nonlinear free vibration of elastically actuated microtubes. <i>Meccanica</i> , 2021, 56, 813-823. | 1.2 | 13 |
| 30 | An Optimal Iteration Method for Strongly Nonlinear Oscillators. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-11. | 0.4 | 9 |
| 31 | Some Effects of Rubberized Asphalt on Decreasing the Phonic Pollution. <i>Applied Mechanics and Materials</i> , 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. <i>Mathematics</i> , 2021, 9, 1374. | 1.1 | 9 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation. <i>Springer Proceedings in Physics</i> , 2018, , 41-48. | 0.1 | 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. | 0.5 | 5 |
| 38 | An Optimal Approach to Study the Nonlinear Behaviour of a Rotating Electrical Machine. Journal of Applied Mathematics, 2012, 2012, 1-10. | 0.4 | 4 |
| 39 | Optimal Variational Method for Truly Nonlinear Oscillators. Journal of Applied Mathematics, 2013, 2013, 1-6. | 0.4 | 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. | 0.1 | 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. | 0.1 | 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. | 0.1 | 2 |
| 48 | The Optimal Homotopy Asymptotic Method. , 2012, , 103-209. | | 1 |
| 49 | Advances in Nonlinear Vibration. Journal of Applied Mathematics, 2013, 2013, 1-2. | 0.4 | 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, , . | 0.3 | 1 |
| 53 | Viscous flow of an incompressible fluid over a curved stretching surface. AIP Conference Proceedings, 2018, , . | 0.3 | 1 |
| 54 | A new analytical approach to investigate human gait dynamics. ITM Web of Conferences, 2019, 29, 02004. | 0.4 | 1 |

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|----|--|-----|-----------|
| 55 | Vibration of the Biomass Boiler Tube Excited with Impact of the Cleaning Device. Mathematics, 2020, 8, 1519. | 1.1 | 1 |
| 56 | Optimal Auxiliary Functions Method for Nonlinear Vibration of Doubly Clamped Nanobeam Incorporating the Casimir Force. Springer Proceedings in Physics, 2021, , 51-58. | 0.1 | 1 |
| 57 | Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering - 4. AIP Conference Proceedings, 2020, , . | 0.3 | 1 |
| 58 | Angular Momentum About the Total Body Center of Mass Computed at Different Speeds. Springer Proceedings in Physics, 2021, , 227-233. | 0.1 | 1 |
| 59 | Analytical Study of Nonlinear Vibration in a Rub-Impact Jeffcott Rotor. Energies, 2021, 14, 8298. | 1.6 | 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, , . | 0.3 | 0 |
| 64 | Optimal homotopy asymptotic approaches to nonlinear dynamical systems in engineering. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |
| 65 | Analytic solution of the static pull-in instability in MEMS considering Casimir force. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |
| 66 | Optimal homotopy asymptotic method in the study of energy harvesting problems. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 67 | Optimal Homotopy Asymptotic Approaches to Nonlinear Dynamical Systems in Engineering - III. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 68 | Analytic approximate solutions to electrically actuated MEMS. AIP Conference Proceedings, 2020, , . | 0.3 | 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, , . | 0.3 | 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. | 1.6 | 0 |

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|----|---|-----|-----------|
| 91 | A biodynamic multibody system. OHAM solution. AIP Conference Proceedings, 2022, , . | 0.3 | 0 |
| 92 | Preface of the "Optimal Homotopy Asymptotic Approach to Nonlinear Dynamical Systems in Engineering-5. AIP Conference Proceedings, 2022, , . | 0.3 | 0 |
| 93 | Oscillations of a nonlinear energy harvester. AIP Conference Proceedings, 2022, , . | 0.3 | 0 |
| 94 | Dynamics of a piezoelectric cantilever for energy harvesting. AIP Conference Proceedings, 2022, , . | 0.3 | 0 |
| 95 | An optimal analytical solution to a simple pendulum with air resistance. AIP Conference Proceedings, 2022, , . | 0.3 | 0 |