

# Haci Mehmet Baskonus

## List of Publications by Year in descending order

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100  
papers

5,023  
citations

66343

42  
h-index

102487

66  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1412  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Analytical and numerical study of the HIV-1 infection of CD4 <sup>+</sup> T-cells conformable fractional mathematical model that causes acquired immunodeficiency syndrome with the effect of antiviral drug therapy. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7654-7670. | 2.3 | 54        |
| 2  | Newly developed analytical method and its applications of some mathematical models. <i>International Journal of Modern Physics B</i> , 2022, 36, .   | 2.0 | 5         |
| 3  | Modified Predictor-Corrector Method for the Numerical Solution of a Fractional-Order SIR Model with 2019-nCoV. <i>Fractal and Fractional</i> , 2022, 6, 92.  | 3.3 | 48        |
| 4  | A study on Caudrey-Dodd-Gibbon-Sawada-Kotera partial differential equation. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 8737-8753.   | 2.3 | 23        |
| 5  | Investigation of optical solitons to the nonlinear complex Kundu-Eckhaus and Zakharov-Kuznetsov-Benjamin-Bona-Mahony equations in conformable. <i>Optical and Quantum Electronics</i> , 2022, 54, .  | 3.3 | 15        |
| 6  | W-shaped surfaces to the nematic liquid crystals with three nonlinearity laws. <i>Soft Computing</i> , 2021, 25, 4513-4524.  | 3.6 | 29        |
| 7  | New numerical simulation for fractional Benney-Lin equation arising in falling film problems using two novel techniques. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 210-243.  | 3.6 | 72        |
| 8  | Extractions of some new travelling wave solutions to the conformable Date-Jimbo-Kashiwara-Miwa equation. <i>AIMS Mathematics</i> , 2021, 6, 4238-4264.   | 1.6 | 42        |
| 9  | Abundant novel solutions of the conformable Lakshmanan-Porsezian-Daniel model. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2021, 14, 2311.   | 1.1 | 16        |
| 10 | Instability modulation properties of the (2 + 1)-dimensional Kundu-Mukherjee-Naskar model in travelling wave solutions. <i>Modern Physics Letters B</i> , 2021, 35, 2150217.   | 1.9 | 6         |
| 11 | A POWERFUL ITERATIVE APPROACH FOR QUINTIC COMPLEX GINZBURG-LANDAU EQUATION WITHIN THE FRAME OF FRACTIONAL OPERATOR. <i>Fractals</i> , 2021, 29, 2140023.   | 3.7 | 44        |
| 12 | On the Complex Simulations With Dark-Bright to the Hirota-Maccari System. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021, 16, .   | 1.2 | 24        |
| 13 | Computational Investigation of Stefan Blowing Effect on Flow of Second-Grade Fluid Over a Curved Stretching Sheet. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.   | 1.6 | 32        |
| 14 | On the modulation instability analysis and deeper properties of the cubic nonlinear Schrödinger's equation with repulsive $\delta$ -potential. <i>Results in Physics</i> , 2021, 25, 104303.   | 4.1 | 10        |
| 15 | Regarding New Traveling Wave Solutions for the Mathematical Model Arising in Telecommunications. <i>Advances in Mathematical Physics</i> , 2021, 2021, 1-11.   | 0.8 | 5         |
| 16 | A Novel Approach for Fractional $(1+1)$ -Dimensional Biswas-Milovic Equation. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.  | 1.6 | 3         |
| 17 | Fractional approach for a mathematical model of atmospheric dynamics of CO <sub>2</sub> gas with an efficient method. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111347.   | 5.1 | 42        |
| 18 | On the exact solutions to some system of complex nonlinear models. <i>Applied Mathematics and Nonlinear Sciences</i> , 2021, 6, 29-42.   | 1.6 | 67        |

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|----|--|-----|-----------|
| 19 | New classifications of nonlinear Schrödinger model with group velocity dispersion via new extended method. Results in Physics, 2021, 31, 104910.   | 4.1 | 10        |
| 20 | A new survey to the nonlinear electrical transmission line model. International Journal of Cognitive Computing in Engineering, 2021, 2, 208-214.   | 8.2 | 2         |
| 21 | Newly Developed Analytical Scheme and Its Applications to the Some Nonlinear Partial Differential Equations with the Conformable Derivative. Fractal and Fractional, 2021, 5, 238.             | 3.3 | 10        |
| 22 | Numerical Solutions of the Mathematical Models on the Digestive System and COVID-19 Pandemic by Hermite Wavelet Technique. Symmetry, 2021, 13, 2428.   | 2.2 | 21        |
| 23 | An efficient analytical approach for fractional Lakshmanan-Porsezian-Daniel model. Mathematical Methods in the Applied Sciences, 2020, 43, 4136.   | 2.3 | 23        |
| 24 | Periodic waves of the non dissipative double dispersive micro strain wave in the micro structured solids. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123772.            | 2.6 | 23        |
| 25 | Optical Soliton Solutions of the Cubic-Quartic Nonlinear Schrödinger and Resonant Nonlinear Schrödinger Equation with the Parabolic Law. Applied Sciences (Switzerland), 2020, 10, 219.        | 2.5 | 107       |
| 26 | Analytical and approximate solutions of an epidemic system of HIV/AIDS transmission. AEJ - Alexandria Engineering Journal, 2020, 59, 3197-3211.  | 6.4 | 19        |
| 27 | Some new families of exact solutions to a new extension of nonlinear Schrödinger equation. Physica Scripta, 2020, 95, 075208.  | 2.5 | 35        |
| 28 | ITERATIVE METHOD APPLIED TO THE FRACTIONAL NONLINEAR SYSTEMS ARISING IN THERMOELASTICITY WITH MITTAG-LEFFLER KERNEL. Fractals, 2020, 28, 2040040.  | 3.7 | 34        |
| 29 | Novel Dynamic Structures of 2019-nCoV with Nonlocal Operator via Powerful Computational Technique. Biology, 2020, 9, 107.  | 2.8 | 129       |
| 30 | A new study of unreported cases of 2019-nCoV epidemic outbreaks. Chaos, Solitons and Fractals, 2020, 138, 109929.  | 5.1 | 176       |
| 31 | Deeper investigations of the (4 + 1)-dimensional Fokas and (2 + 1)-dimensional Breaking soliton equations. International Journal of Modern Physics B, 2020, 34, 2050152.                       | 2.0 | 11        |
| 32 | New Numerical Results for the Time-Fractional Phi-Four Equation Using a Novel Analytical Approach. Symmetry, 2020, 12, 478.  | 2.2 | 71        |
| 33 | New approach for the model describing the deathly disease in pregnant women using Mittag-Leffler function. Chaos, Solitons and Fractals, 2020, 134, 109696.                                    | 5.1 | 108       |
| 34 | Regarding new numerical solution of fractional Schistosomiasis disease arising in biological phenomena. Chaos, Solitons and Fractals, 2020, 133, 109661.                                       | 5.1 | 55        |
| 35 | Optical soliton solutions to the Fokas-Lenells equation via sine-Gordon expansion method and $\mathcal{G}$ -expansion method. Pramana - Journal of Physics, 2020, 94, 1.                       | 1.8 | 107       |
| 36 | Newly modified method and its application to the coupled Boussinesq equation in ocean engineering with its linear stability analysis. Communications in Theoretical Physics, 2020, 72, 115002. | 2.5 | 10        |

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|----|---|-----|-----------|
| 37 | New investigation of bats-hosts-reservoir-people coronavirus model and application to 2019-nCoV system. <i>Advances in Difference Equations</i> , 2020, 2020, 391.                | 3.5 | 79        |
| 38 | Complex solitons in the conformable (2+1)-dimensional Ablowitz-Kaup-Newell-Segur equation. <i>AIMS Mathematics</i> , 2020, 5, 507-521.  | 1.6 | 160       |
| 39 | New complex wave patterns to the electrical transmission line model arising in network system. <i>AIMS Mathematics</i> , 2020, 5, 1881-1892.                                      | 1.6 | 70        |
| 40 | New numerical simulations for some real world problems with Atangana-Baleanu fractional derivative. <i>Chaos, Solitons and Fractals</i> , 2019, 128, 34-43.                       | 5.1 | 109       |
| 41 | Regarding the group preserving scheme and method of line to the numerical simulations of Klein-Gordon model. <i>Results in Physics</i> , 2019, 15, 102555.                        | 4.1 | 20        |
| 42 | An efficient technique for a time fractional model of lassa hemorrhagic fever spreading in pregnant women. <i>European Physical Journal Plus</i> , 2019, 134, 1.                  | 2.6 | 63        |
| 43 | Novel simulations to the time-fractional Fisher's equation. <i>Mathematical Sciences</i> , 2019, 13, 33-42.   | 1.7 | 84        |
| 44 | Singular solitons in the pseudo-parabolic model arising in nonlinear surface waves. <i>Results in Physics</i> , 2019, 12, 1712-1715.  | 4.1 | 30        |
| 45 | Analysis of the dynamics of hepatitis E virus using the Atangana-Baleanu fractional derivative. <i>European Physical Journal Plus</i> , 2019, 134, 1.                             | 2.6 | 46        |
| 46 | Solving smoking epidemic model of fractional order using a modified homotopy analysis transform method. <i>Mathematical Sciences</i> , 2019, 13, 115-128.                         | 1.7 | 65        |
| 47 | Jacobi elliptic function solutions of the double dispersive equation in the Murnaghan's rod. <i>European Physical Journal Plus</i> , 2019, 134, 1.                                | 2.6 | 22        |
| 48 | Complex Soliton Solutions to the Gilson-Pickering Model. <i>Axioms</i> , 2019, 8, 18.   | 1.9 | 61        |
| 49 | Complex and Real Optical Soliton Properties of the Paraxial Non-linear Schrödinger Equation in Kerr Media With M-Fractional. <i>Frontiers in Physics</i> , 2019, 7, .             | 2.1 | 52        |
| 50 | A powerful approach for fractional Drinfeld-Sokolov-Wilson equation with Mittag-Leffler law. <i>AEJ - Alexandria Engineering Journal</i> , 2019, 58, 1301-1311.                   | 6.4 | 69        |
| 51 | New Complex and Hyperbolic Forms for Ablowitz-Kaup-Newell-Segur Wave Equation with Fourth Order. <i>Applied Mathematics and Nonlinear Sciences</i> , 2019, 4, 93-100.             | 1.6 | 43        |
| 52 | New Complex Hyperbolic Structures to the Lonngren-Wave Equation by Using Sine-Gordon Expansion Method. <i>Applied Mathematics and Nonlinear Sciences</i> , 2019, 4, 129-138.      | 1.6 | 153       |
| 53 | On the Dark and Bright Solitons to the Negative-Order Breaking Soliton Model with (2+1)-Dimensional. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019, , 229-242. | 0.2 | 1         |
| 54 | On the bright and singular optical solitons to the (2+1)-dimensional NLS and the Hirota equations. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.                          | 3.3 | 35        |

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|----|---|-----|-----------|
| 55 | On the soliton solutions to the Nizhnik-Novikov-Veselov and the Drinfeld-Sokolov systems. Optical and Quantum Electronics, 2018, 50, 1.   | 3.3 | 89        |
| 56 | Cancer treatment model with the Caputo-Fabrizio fractional derivative. European Physical Journal Plus, 2018, 133, 1.  | 2.6 | 113       |
| 57 | Optical solitons to the space-time fractional (1+1)-dimensional coupled nonlinear Schrödinger equation. Optik, 2018, 167, 150-156.  | 2.9 | 155       |
| 58 | On the new wave solutions to a nonlinear model arising in plasma physics. European Physical Journal Plus, 2018, 133, 1.   | 2.6 | 25        |
| 59 | On the solitary wave solutions to the longitudinal wave equation in MEE circular rod. Optical and Quantum Electronics, 2018, 50, 1.   | 3.3 | 32        |
| 60 | Investigations of dark, bright, combined dark-bright optical and other soliton solutions in the complex cubic nonlinear Schrödinger equation with $\Gamma$ -potential. Superlattices and Microstructures, 2018, 115, 19-29. | 3.1 | 58        |
| 61 | Complex acoustic gravity wave behaviors to some mathematical models arising in fluid dynamics and nonlinear dispersive media. Optical and Quantum Electronics, 2018, 50, 1.   | 3.3 | 29        |
| 62 | Dark, bright and other optical solitons to the decoupled nonlinear Schrödinger equation arising in dual-core optical fibers. Optical and Quantum Electronics, 2018, 50, 1.  | 3.3 | 40        |
| 63 | Numerical simulation and solutions of the two-component second order KdV evolutionary system. Numerical Methods for Partial Differential Equations, 2018, 34, 211-227.  | 3.6 | 116       |
| 64 | Novel complex and hyperbolic forms to the strain wave equation in microstructured solids. Optical and Quantum Electronics, 2018, 50, 1.   | 3.3 | 31        |
| 65 | Regarding the numerical solutions of the Sharma-Tasso-Olver equation. ITM Web of Conferences, 2018, 22, 01036.  | 0.5 | 14        |
| 66 | On the exact solitary wave solutions to the long-short wave interaction system. ITM Web of Conferences, 2018, 22, 01063.  | 0.5 | 11        |
| 67 | Construction of various soliton solutions via the simplified extended sinh-Gordon equation expansion method. ITM Web of Conferences, 2018, 22, 01062.   | 0.5 | 7         |
| 68 | On the exact and numerical solutions to a nonlinear model arising in mathematical biology. ITM Web of Conferences, 2018, 22, 01061.   | 0.5 | 13        |
| 69 | Optical solitons and other solutions to the conformable space-time fractional Fokas-Lenells equation. Optik, 2018, 172, 20-27.  | 2.9 | 84        |
| 70 | Optical solitons and other solutions to the conformable space-time fractional complex Ginzburg-Landau equation under Kerr law nonlinearity. Pramana - Journal of Physics, 2018, 91, 1.                                      | 1.8 | 31        |
| 71 | Bright, dark optical and other solitons to the generalized higher-order NLSE in optical fibers. Optical and Quantum Electronics, 2018, 50, 1.   | 3.3 | 30        |
| 72 | Solitons in an inhomogeneous Murnaghan's rod. European Physical Journal Plus, 2018, 133, 1.   | 2.6 | 86        |

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|----|---|-----|-----------|
| 73 | Analytic study for a fractional model of HIV infection of C D 4 + T lymphocyte cells. International Journal of Modern Languages and Applied Linguistics, 2018, 02, 33-43.                     | 0.1 | 63        |
| 74 | Analytical solutions for nonlinear longâ€‘short wave interaction systems with highly complex structure. Journal of Computational and Applied Mathematics, 2017, 312, 257-266.                 | 2.0 | 30        |
| 75 | New solitary and optical wave structures to the (1 + 1)-dimensional combined KdVâ€‘mKdV equation. Optik, 2017, 135, 327-336.  | 2.9 | 51        |
| 76 | On the novel wave behaviors to the coupled nonlinear Maccari's system with complex structure. Optik, 2017, 131, 1036-1043.  | 2.9 | 69        |
| 77 | New complex and hyperbolic function solutions to the generalized double combined Sinh-Cosh-Gordon equation. AIP Conference Proceedings, 2017, , .   | 0.4 | 40        |
| 78 | Novel hyperbolic behaviors to some important models arising in quantum science. Optical and Quantum Electronics, 2017, 49, 1.   | 3.3 | 17        |
| 79 | New wave simulations to the (3+1)-dimensional modified Kdv-Zakharov-Kuznetsov equation. AIP Conference Proceedings, 2017, , .   | 0.4 | 1         |
| 80 | On the new hyperbolic and trigonometric structures to the simplified MCH and SRLW equations. European Physical Journal Plus, 2017, 132, 1.  | 2.6 | 25        |
| 81 | Novel archetypes of new coupled Konnoâ€‘Oono equation by using sineâ€‘Gordon expansion method. Optical and Quantum Electronics, 2017, 49, 1.  | 3.3 | 70        |
| 82 | Investigation of various travelling wave solutions to the extended (2+1)-dimensional quantum ZK equation. European Physical Journal Plus, 2017, 132, 1.                                       | 2.6 | 41        |
| 83 | On the new soliton and optical wave structures to some nonlinear evolution equations. European Physical Journal Plus, 2017, 132, 1.   | 2.6 | 45        |
| 84 | New solitary wave solutions to the (2+1)-dimensional Calogeroâ€‘Bogoyavlenskiiâ€‘Schiff and the Kadomtsevâ€‘Petviashvili hierarchy equations. Indian Journal of Physics, 2017, 91, 1237-1243. | 1.8 | 38        |
| 85 | New Complex Hyperbolic Function Solutions for the (2+1)-Dimensional Dispersive Long Waterâ€‘Wave System. Mathematical and Computational Applications, 2016, 21, 6.                            | 1.3 | 14        |
| 86 | New solitary and optical wave structures to the Kortewegâ€‘de Vries equation with dual-power law nonlinearity. Optical and Quantum Electronics, 2016, 48, 1.                                  | 3.3 | 53        |
| 87 | Chaos in the fractional order logistic delay system: Circuit realization and synchronization. AIP Conference Proceedings, 2016, , .   | 0.4 | 32        |
| 88 | Regarding on the prototype solutions for the nonlinear fractional-order biological population model. AIP Conference Proceedings, 2016, , .  | 0.4 | 32        |
| 89 | Some novel exponential function structures to the Cahnâ€‘Allen equation. Cogent Physics, 2016, 3, .   | 0.7 | 33        |
| 90 | New wave behaviors of the system of equations for the ion sound and Langmuir Waves. Waves in Random and Complex Media, 2016, 26, 613-625.   | 2.7 | 83        |

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|-----|---|-----|-----------|
| 91  | Prototype traveling wave solutions of new coupled Konno-Oono equation. Optik, 2016, 127, 10786-10794.   | 2.9 | 22        |
| 92  | New acoustic wave behaviors to the Davey-Stewartson equation with power-law nonlinearity arising in fluid dynamics. Nonlinear Dynamics, 2016, 86, 177-183.                                  | 5.2 | 130       |
| 93  | Dark and new travelling wave solutions to the nonlinear evolution equation. Optik, 2016, 127, 8043-8055.  | 2.9 | 15        |
| 94  | Exponential prototype structures for (2+1)-dimensional Boiti-Leon-Pempinelli systems in mathematical physics. Waves in Random and Complex Media, 2016, 26, 189-196.                         | 2.7 | 109       |
| 95  | On the complex and hyperbolic structures of the longitudinal wave equation in a magneto-electro-elastic circular rod. Smart Materials and Structures, 2016, 25, 035022.                     | 3.5 | 98        |
| 96  | Analytical studies on the (1+1)-dimensional nonlinear Dispersive Modified Benjamin-Bona-Mahony equation defined by seismic sea waves. Waves in Random and Complex Media, 2015, 25, 576-586. | 2.7 | 37        |
| 97  | An Effective Schema for Solving Some Nonlinear Partial Differential Equation Arising In Nonlinear Physics. Open Physics, 2015, 13, .  | 1.7 | 18        |
| 98  | On the numerical solutions of some fractional ordinary differential equations by fractional Adams-Bashforth-Moulton method. Open Mathematics, 2015, 13, .                                   | 1.0 | 99        |
| 99  | On the complex structures of Kundu-Eckhaus equation via improved Bernoulli sub-equation function method. Waves in Random and Complex Media, 2015, 25, 720-728.                              | 2.7 | 82        |
| 100 | The Analytical Solution of Some Fractional Ordinary Differential Equations by the Sumudu Transform Method. Abstract and Applied Analysis, 2013, 2013, 1-6.                                  | 0.7 | 62        |