

ACADEMIC CURRICULUM VITAE

1. Name - Surname: Kamyar Hosseini

2. Title: Associate Professor

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Mathematics	Islamic Azad University of Lihijan	2006
Master's	Applied Mathematics	Islamic Azad University of Lihijan	2008
PhD	Applied Mathematics	Guilan Science and Research Branch	2019

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s): Homotopy method and comparing its results with Adomin decomposition method for solving functional equations

4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s): Analytical solution of nonlinear functional equations

5. Academic Titles:

Date of Assistant Professorship:

Date of Associate Professorship: 2023

Date of Professorship:

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

1. The Kudryashov methods in constructing solitary waves in nonlinear Schrodinger equations

6.2. PhD Theses

2. Different wave structures of the Hirota bilinear equations

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI, SSCI, AHCI, ESCI, Scopus)

1. K. Hosseini, E. Hincal, F. Mirekhtiary, K. Sadri, O.A. Obi, A. Denker, M. Mirzazadeh, A fourth-order nonlinear Schrödinger equation involving power law and weak nonlocality: Its solitary waves and modulational instability analysis, *Optik* 284 (2023) 170927.
2. K. Hosseini, K. Sadri, M. Mirzazadeh, A. Ahmadian, Y.M. Chu, S. Salahshour, Reliable methods to look for analytical and numerical solutions of a nonlinear differential equation arising in heat transfer with the conformable derivative, *Mathematical Methods in the Applied Sciences* 46 (2023) 11342-11354.
3. K. Hosseini, K. Sadri, E. Hincal, A. Abbasi, D. Baleanu, S. Salahshour, Periodic and solitary waves of the nonlinear Konno–Oono model: generalized methods, *Optical and Quantum Electronics* 55 (2023) 564.
4. K. Hosseini, E. Hincal, O.A. Obi, M. Mirzazadeh, Solitary waves of coupled nonlinear Schrödinger equations: a generalized method, *Optical and Quantum Electronics* 55 (2023) 599.
5. K. Hosseini, E. Hincal, D. Baleanu, O.A. Obi, S. Salahshour, Non-singular multi-complexiton wave to a generalized KdV equation, *Nonlinear Dynamics* 111 (2023) 7591–7597.
6. K. Hosseini, E. Hincal, M. Mirzazadeh, S. Salahshour, O.A. Obi, F. Rabiei, A nonlinear Schrödinger equation including the parabolic law and its dark solitons, *Optik* 273 (2023) 170363.
7. K. Hosseini, E. Hincal, S. Salahshour, M. Mirzazadeh, K. Dehingia, B.J. Nath, On the dynamics of soliton waves in a generalized nonlinear Schrödinger equation, *Optik* 272 (2023) 170215.
8. K. Hosseini, K. Sadri, S. Salahshour, D. Baleanu, M. Mirzazadeh, M. Inc, The generalized Sasa–Satsuma equation and its optical solitons, *Optical and Quantum Electronics* 54 (2022) 723.
9. K. Hosseini, S. Salahshour, D. Baleanu, M. Mirzazadeh, K. Dehingia, A new generalized KdV equation: Its lump-type, complexiton, and soliton solutions, *International Journal of Modern Physics B* 36 (2022) 2250229.
10. K. Hosseini, A. Akbulut, D. Baleanu, S. Salahshour, M. Mirzazadeh, L. Akinyemi, The geophysical KdV equation: Its solitons, complexiton, and conservation laws, *GEM - International Journal on Geomathematics* 13 (2022) 12.
11. K. Hosseini, M. Ilie, M. Mirzazadeh, D. Baleanu, C. Park, S. Salahshour, The Caputo–Fabrizio time-fractional Sharma–Tasso–Olver–Burgers equation and its valid approximations, *Communications in Theoretical Physics* 74 (2022) 075003.
12. K. Hosseini, M. Mirzazadeh, L. Akinyemi, D. Baleanu, S. Salahshour, Optical solitons to the Ginzburg–Landau equation including the parabolic nonlinearity, *Optical and Quantum Electronics* 54 (2022) 631.
13. K. Hosseini, A Akbulut, D Baleanu, S Salahshour, The Sharma–Tasso–Olver–Burgers equation: Its conservation laws and kink solitons, *Communications in Theoretical Physics* 74 (2022) 025001.
14. K. Hosseini, M. Mirzazadeh, S. Salahshour, D. Baleanu, A. Zafar, Specific wave structures of a fifth-order nonlinear water wave equation, *Journal of Ocean Engineering and Science* 7 (2022) 462–466.
15. K. Hosseini, M. Mirzazadeh, D. Baleanu, S. Salahshour, L. Akinyemi, Optical solitons of a high-order nonlinear Schrödinger equation involving nonlinear dispersions and Kerr effect, *Optical and Quantum Electronics* 54 (2022) 177.
16. K. Hosseini, M. Samavat, M. Mirzazadeh, S. Salahshour, D. Baleanu, A new (4+1)-dimensional Burgers equation: its Bäcklund transformation and real and complex N -kink solitons, *International Journal of Applied and Computational Mathematics* 8 (2022) 172.

17. K. Hosseini, M. Mirzazadeh, K. Dehingia, A. Das, S. Salahshour, A study on different wave structures of the (2+1)-dimensional chiral Schrödinger equation, *Russian Journal of Nonlinear Dynamics* 187 (2022) 231–240.
18. K. Hosseini, K. Sadri, F. Rabiei, M. Mirzazadeh, The (2+ 1)-dimensional potential Kadomtsev–Petviashvili equation: Its solitons and complexiton, *Partial Differential Equations in Applied Mathematics* 5 (2022) 100316.
19. K. Sadri, K. Hosseini, D. Baleanu, S. Salahshour, C. Park, Designing a matrix collocation method for fractional delay integro-differential equations with weakly singular kernels based on Vieta–Fibonacci polynomials, *Fractal and Fractional* 6 (2022) 2.
20. L. Akinyemi, M. Mirzazadeh, K. Hosseini, Solitons and other solutions of perturbed nonlinear Biswas–Milovic equation with Kudryashov’s law of refractive index, *Nonlinear Analysis: Modelling and Control* 27 (2022) 479–495.
21. A. Khoshkenar, M. Ilie, K. Hosseini, D. Baleanu, S. Salahshour, C. Park, J.R. Lee, Further studies on ordinary differential equations involving the M -fractional derivative, *AIMS Mathematics* 7 (2022) 10977–10993.
22. A. Das, K. Dehingia, H.K. Sarmah, K. Hosseini, K. Sadri, S. Salahshour, Analysis of a delay-induced mathematical model of cancer, *Advances in Continuous and Discrete Models* 2022 (2022) 15.
23. L. Akinyemi, M. Mirzazadeh, S.A. Badri, K. Hosseini, Dynamical solitons for the perturbed Biswas–Milovic equation with Kudryashov’s law of refractive index using the first integral method, *Journal of Modern Optics* 69 (2021) 172–182.
24. A. Zafar, M. Raheel, M. Asif, K. Hosseini, M. Mirzazadeh, L. Akinyemi, Some novel integration techniques to explore the conformable M -fractional Schrödinger–Hirota equation, *Journal of Ocean Engineering and Science* 7 (2022) 337–344.
25. A. Das, H. Kr. Sarmah, D. Bhattacharya, K. Dehingia, K. Hosseini, Combination of virotherapy and chemotherapy with optimal control for combating cancer, *Mathematics and Computers in Simulation* 194 (2022) 460–488.
26. K. Hosseini, K. Sadri, M. Mirzazadeh, Y.M. Chu, A. Ahmadian, B.A. Pansera, S. Salahshour, A high-order nonlinear Schrödinger equation with the weak non-local nonlinearity and its optical solitons, *Results in Physics* 23 (2021) 104035.
27. K. Hosseini, M. Ilie, M. Mirzazadeh, A. Yusuf, T.A. Sulaiman, D. Baleanu, S. Salahshour, An effective computational method to deal with a time-fractional nonlinear water wave equation in the Caputo sense, *Mathematics and Computers in Simulation* 187 (2021) 248–260.
28. K. Hosseini, S. Salahshour, M. Mirzazadeh, A. Ahmadian, D. Baleanu, A. Khoshrang, The (2+1)-dimensional Heisenberg ferromagnetic spin chain equation: Its solitons and Jacobi elliptic function solutions, *European Physical Journal Plus* 136 (2021) 206.
29. K. Hosseini, M. Matinfar, M. Mirzazadeh, Soliton solutions of high-order nonlinear Schrödinger equations with different laws of nonlinearities, *Regular and Chaotic Dynamics* 26 (2021) 105–112.
30. K. Hosseini, S. Salahshour, M. Mirzazadeh, Bright and dark solitons of a weakly nonlocal Schrödinger equation involving the parabolic law nonlinearity, *Optik* 227 (2021) 166042.
31. K. Hosseini, L. Kaur, M. Mirzazadeh, H.M. Baskonus, 1-soliton solutions of the (2+1)-dimensional Heisenberg ferromagnetic spin chain model with the beta time derivative, *Optical and Quantum Electronics* 53 (2021) 125.

32. K. Hosseini, K. Sadri, M. Mirzazadeh, S. Salahshour, An integrable (2+1)-dimensional nonlinear Schrödinger system and its optical soliton solutions, *Optik* 229 (2021) 166247.
33. K. Hosseini, M. Ilie, M. Mirzazadeh, D. Baleanu, An analytic study on the approximate solution of a nonlinear time-fractional Cauchy reaction-diffusion equation with the Mittag–Leffler law, *Mathematical Methods in the Applied Sciences* 44 (2021) 6247–6258.
34. K. Hosseini, M. Mirzazadeh, D. Baleanu, N. Raza, C. Park, A. Ahmadian, S. Salahshour, The generalized complex Ginzburg–Landau model and its dark and bright soliton solutions, *European Physical Journal Plus* 136 (2021) 709.
35. M. Matinfar, K. Hosseini, Optical solitons of (2+1)-dimensional nonlinear Schrödinger equation involving linear and nonlinear effects, *Optik* 228 (2021) 166110.
36. L. Akinyemi, K. Hosseini, S. Salahshour, The bright and singular solitons of (2+1)-dimensional nonlinear Schrödinger equation with spatio-temporal dispersions, *Optik* 242 (2021) 166911.
37. M. Eslami, K. Hosseini, M. Matinfar, M. Mirzazadeh, M. Ilie, J.F. Gómez-Aguilar, A nonlinear Schrödinger equation describing the polarization mode and its chirped optical solitons, *Optical and Quantum Electronics* 53 (2021) 314.
38. K. Sadri, K. Hosseini, M. Mirzazadeh, A. Ahmadian, S. Salahshour, J. Singh, Bivariate Jacobi polynomials for solving Volterra partial integro-differential equations with the weakly singular kernel, *Mathematical Methods in the Applied Sciences* (2021), doi.10.1002/mma.7662.
39. D. Baleanu, K. Hosseini, S. Salahshour, K. Sadri, M. Mirzazadeh, C. Park, A. Ahmadian, The (2+1)-dimensional hyperbolic nonlinear Schrödinger equation and its optical solitons, *AIMS Mathematics* 6 (2021) 9568–9581.
40. D. Kumar, K. Hosseini, M.K.A. Kaabar, M. Kaplan, S. Salahshour, On some novel soliton solutions to the generalized Schrödinger–Boussinesq equations for the interaction between complex short wave and real long wave envelope, *Journal of Ocean Engineering and Science* (2021), doi.10.1016/j.joes.2021.09.008.
41. S. Salahshour, K. Hosseini, M. Mirzazadeh, D. Baleanu, Soliton structures of a nonlinear Schrödinger equation involving the parabolic law, *Optical and Quantum Electronics* 53 (2021) 672.
42. K. Sadri, K. Hosseini, D. Baleanu, A Ahmadian, S. Salahshour, Bivariate Chebyshev polynomials of the fifth kind for variable-order time-fractional partial integro-differential equations with weakly singular kernel, *Advances in Difference Equations* 2021 (2021) 348.
43. A. Zafar, M. Raheel, K. Hosseini, M. Mirzazadeh, S. Salahshour, C. Park, D.Y. Shin, Diverse approaches to search for solitary wave solutions of the fractional modified Camassa–Holm equation, *Results in Physics* 31 (2021) 104882.
44. K. Dehingia, H.K. Sarmah, K. Hosseini, K. Sadri, S. Salahshour, C. Park, An optimal control problem of immuno-chemotherapy in presence of gene therapy, *AIMS Mathematics* 6 (2021) 11530–11549.
45. M. Mirzazadeh, L. Akinyemi, M. Senol, K. Hosseini, A variety of solitons to the sixth-order dispersive (3+1)-dimensional nonlinear time-fractional Schrödinger equation with cubic-quintic-septic nonlinearities, *Optik* (2021) 166318.
46. K. Dehingia, H.K. Sarmah, Y. Alharbi, K. Hosseini, Mathematical analysis of a cancer model with time-delay in tumor-immune interaction and stimulation processes, *Advances in Difference Equations* 2021 (2021) 473.

47. S.W. Yao, L. Akinyemi, M. Mirzazadeh, M. Inc, K. Hosseini, M. Senol, Dynamics of optical solitons in higher-order Sasa–Satsuma equation, *Results in Physics* 30 (2021) 104825.
48. F. Rabiei, F. Abd Hamid, M.M. Rashidi, Z. Ali, K. Shah, K. Hosseini, T. Khodadadi, Numerical simulation of fuzzy Volterra integro-differential equation using improved Runge–Kutta method, *Journal of Applied and Computational Mechanics* (2021), doi.10.22055/jacm.2021.38381.3212.
49. K. Hosseini, M. Mirzazadeh, M. Ilie, J.F. Gómez-Aguilar, Soliton solutions of the Sasa–Satsuma equation in the monomode optical fibers including the beta-derivatives, *Optik* 224 (2020) 165425.
50. K. Hosseini, M. Samavat, M. Mirzazadeh, W.X. Ma, Z. Hammouch, A new (3+1)-dimensional Hirota bilinear equation: Its Backlund transformation and rational-type solutions, *Regular and Chaotic Dynamics* 25 (2020) 383–391.
51. K. Hosseini, M. Ilie, M. Mirzazadeh, D. Baleanu, A detailed study on a new (2+1)-dimensional mKdV equation involving the Caputo–Fabrizio time-fractional derivative, *Advances in Difference Equations* 2020 (2020) 331.
52. K. Hosseini, M. Mirzazadeh, M. Aligoli, M. Eslami, J.G. Liu, Rational wave solutions to a generalized (2+1)-dimensional Hirota bilinear equation, *Mathematical Modelling of Natural Phenomena* 15 (2020) 61.
53. K. Hosseini, M. Mirzazadeh, M.S. Osman, M. Al Qurashi, D. Baleanu, Solitons and Jacobi elliptic function solutions to the complex Ginzburg–Landau equation, *Frontiers in Physics* 8 (2020) 225.
54. K. Hosseini, M. Mirzazadeh, M. Ilie, S. Radmehr, Dynamics of optical solitons in the perturbed Gerdjikov–Ivanov equation, *Optik* 206 (2020) 164350.
55. K. Hosseini, M. Mirzazadeh, J. Vahidi, R. Asghari, Optical wave structures to the Fokas–Lenells equation, *Optik* 207 (2020) 164450.
56. K. Hosseini, A.R. Seadawy, M. Mirzazadeh, M. Eslami, S. Radmehr, D. Baleanu, Multiwave, multicomplexiton, and positive multicomplexiton solutions to a (3+1)-dimensional generalized breaking soliton equation, *Alexandria Engineering Journal* 59 (2020) 3473–3479.
57. K. Hosseini, M. Mirzazadeh, M. Ilie, J.F. Gómez-Aguilar, Biswas–Arshed equation with the beta time derivative: Optical solitons and other solutions, *Optik* 217 (2020) 164801.
58. K. Hosseini, M. Mirzazadeh, F. Rabiei, H.M. Baskonus, G. Yel, Dark optical solitons to the Biswas–Arshed equation with high order dispersions and absence of self-phase modulation, *Optik* 209 (2020) 164576.
59. K. Hosseini, R. Ansari, A. Zabihi, A. Shafaroody, M. Mirzazadeh, Optical solitons and modulation instability of the resonant nonlinear Schrödinger equations in (3+1)-dimensions, *Optik* 209 (2020) 164584.
60. K. Hosseini, W.X. Ma, R. Ansari, M. Mirzazadeh, R. Pouyanmehr, F. Samadani, Evolutionary behavior of rational wave solutions to the (4+1)-dimensional Boiti–Leon–Manna–Pempinelli equation, *Physica Scripta* 95 (2020) 065208.
61. K. Hosseini, M. Matinfar, M. Mirzazadeh, A (3+1)-dimensional resonant nonlinear Schrödinger equation and its Jacobi elliptic and exponential function solutions, *Optik* 207 (2020) 164458.
62. K. Hosseini, M.S. Osman, M. Mirzazadeh, F. Rabiei, Investigation of different wave structures to the generalized third-order nonlinear Schrödinger equation, *Optik* 206 (2020) 164259.
63. A. Zabihi, R. Ansari, K. Hosseini, F. Samadani, J. Torabi, Nonlinear pull-in instability of rectangular

- nanoplates based on the positive and negative second-order strain gradient theories with various edge supports, *Zeitschrift für Naturforschung A* 75 (2020) 317–331.
64. A. Korkmaz, O.E. Hepson, K. Hosseini, H. Rezazadeh, M. Eslami, Sine-Gordon expansion method for exact solutions to conformable time fractional equations in RLW-class, *Journal of King Saud University - Science* 32 (2020) 567–574.
 65. M.S. Osman, D. Baleanu, A.R. Adem, K. Hosseini, M. Mirzazadeh, M. Eslami, Double-wave solutions and Lie symmetry analysis to the (2+1)-dimensional coupled Burgers equations, *Chinese Journal of Physics* 63 (2020) 122–129.
 66. J. Torabi, R. Ansari, A. Zabihi, K. Hosseini, Dynamic and pull-in instability analyses of functionally graded nanoplates via nonlocal strain gradient theory, *Mechanics Based Design of Structures and Machines, An International Journal* (2020), doi.10.1080/15397734.2020.1721298.
 67. M.S. Osman, M. Inc, J.G. Liu, K. Hosseini, A. Yusuf, Different wave structures and stability analysis for the generalized (2+1)-dimensional Camassa–Holm–Kadomtsev–Petviashvili equation, *Physica Scripta* 95 (2020) 035229.
 68. S.M.J. Hosseini, R. Ansari, J. Torabi, A. Zabihi, K. Hosseini, Nonlocal strain gradient pull-in study of nanobeams considering various boundary conditions, *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering* (2020), doi.10.1007/s40997-020-00365-6.
 69. K. Hosseini, M. Aligoli, M. Mirzazadeh, M. Eslami, J.F. Gómez Aguilar, Dynamics of rational solutions in a new generalized Kadomtsev–Petviashvili equation, *Modern Physics Letters B* 33 (2019) 1950437.
 70. K. Hosseini, R. Ansari, F. Samadani, A. Zabihi, A. Shafaroody, M. Mirzazadeh, High-order dispersive cubic-quintic Schrödinger equation and its exact solutions, *Acta Physica Polonica A* 136 (2019) 203–207.
 71. K. Hosseini, M. Inc, M. Shafiee, M. Ilie, A. Shafaroody, A. Yusuf, M. Bayram, Invariant subspaces, exact solutions and stability analysis of nonlinear water wave equations, *Journal of Ocean Engineering and Science* 5 (2019) 35–40.
 72. K. Hosseini, M. Mirzazadeh, Q. Zhou, Y. Liu, M. Moradi, Analytic study on chirped optical solitons in nonlinear metamaterials with higher order effects, *Laser Physics* 29 (2019) 095402.
 73. K. Hosseini, A. Korkmaz, A. Bekir, F. Samadani, A. Zabihi, M. Topsakal, New wave form solutions of nonlinear conformable time-fractional Zoomeron equation in (2+1)-dimensions, *Waves in Random and Complex Media* (2019), doi.10.1080/17455030.2019.1579393.
 74. K. Hosseini, Z. Ayati, R. Ansari, Application of the invariant subspace method in conjunction with the fractional Sumudu's transform to a nonlinear conformable time-fractional dispersive equation of the fifth-order, *Computational Methods for Differential Equations* 7 (2019) 359–369.
 75. K. Hosseini, A. Bekir, F. Rabiei, An effective technique for the conformable space-time fractional EW and modified EW equations, *Nonlinear Engineering* 8 (2019) 157–163.
 76. M. Inc, K. Hosseini, M. Samavat, M. Mirzazadeh, M. Eslami, M. Moradi, D. Baleanu, *N*-wave and other solutions to the B-type Kadomtsev–Petviashvili equation, *Thermal Science* 23 (2019) 2027–2035.
 77. R. Pouyanmehr, K. Hosseini, R. Ansari, S.H. Alavi, Different wave structures to the (2+1)-dimensional generalized Bogoyavlensky–Konopelchenko equation, *International Journal of Applied and Computational Mathematics* 5 (2019) 1–12.

78. O. Guner, A. Bekir, K. Hosseini, Solitary wave solutions of nonlinear conformable time-fractional Boussinesq equations, *Acta Physica Polonica A* 136 (2019) 135–140.
79. A.R. Adem, M. Mirzazadeh, Q. Zhou, K. Hosseini, Multiple soliton solutions of the Sawada–Kotera equation with a nonvanishing boundary condition and the perturbed Korteweg de Vries equation by using the multiple exp-function scheme, *Advances in Mathematical Physics* 2019 (2019) 3175213.
80. K. Hosseini, A. Zabihi, F. Samadani, R. Ansari, New explicit exact solutions of the unstable nonlinear Schrödinger's equation using the \exp_a and hyperbolic function methods, *Optical and Quantum Electronics* 50 (2018) 82.
81. K. Hosseini, P. Mayeli, R. Ansari, Bright and singular soliton solutions of the conformable time-fractional Klein–Gordon equations with different nonlinearities, *Waves in Random and Complex Media* 28 (2018) 426–434.
82. K. Hosseini, P. Mayeli, E. Yazdani Bejarbaneh, Q. Zhou, New optical solitons of the longitudinal wave equation in a magneto-electro-elastic circular rod, *Acta Physica Polonica A* 133 (2018) 20–22.
83. K. Hosseini, J. Manafian, F. Samadani, M. Foroutan, M. Mirzazadeh, Q. Zhou, Resonant optical solitons with perturbation terms and fractional temporal evolution using improved $\tan(\phi(\eta)/2)$ -expansion method and exp function approach, *Optik* 158 (2018) 933–939.
84. K. Hosseini, F. Samadani, D. Kumar, M. Faridi, New optical solitons of cubic-quartic nonlinear Schrödinger equation, *Optik* 157 (2018) 1101–1105.
85. K. Hosseini, E. Yazdani Bejarbaneh, P. Mayeli, Q. Zhou, Travelling wave solutions of the Korteweg-de Vries equation with dual-power law nonlinearity using the improved $\tan(\phi(\xi)/2)$ -expansion method, *Optik* 156 (2018) 498–504.
86. K. Hosseini, Z. Ayati, R. Ansari, New exact solutions of the Tzitzéica type equations in nonlinear optics using the \exp_a function method, *Journal of Modern Optics* 65 (2018) 847–851.
87. K. Hosseini, P. Mayeli, A. Bekir, O. Guner, Density-dependent conformable space-time fractional diffusion–reaction equation and its exact solutions, *Communications in Theoretical Physics* 69 (2018) 1–4.
88. K. Hosseini, P. Mayeli, D. Kumar, New exact solutions of the coupled sine-Gordon equations in nonlinear optics using the modified Kudryashov method, *Journal of Modern Optics* 65 (2018) 361–364.
89. M. Kaplan, K. Hosseini, F. Samadani, N. Raza, Optical soliton solutions of the cubic-quintic nonlinear Schrödinger's equation including an anti-cubic term, *Journal of Modern Optics* 65 (2018) 1431–1436.
90. P. Moradweysi, R. Ansari, K. Hosseini, F. Sadeghi, Application of modified Adomian decomposition method to pull-in instability of nano-switches using nonlocal Timoshenko beam theory, *Applied Mathematical Modelling* 54 (2018) 594–604.
91. A.R. Seadawy, D. Kumar, K. Hosseini, F. Samadani, The system of equations for the ion sound and Langmuir waves and its new exact solutions, *Results in Physics* 9 (2018) 1631–1634.
92. K. Hosseini, D. Kumar, M. Kaplan, E. Yazdani Bejarbaneh, New exact traveling wave solutions of the unstable nonlinear Schrödinger equations, *Communications in Theoretical Physics* 68 (2017) 761–767.
93. K. Hosseini, A. Bekir, M. Kaplan, O. Guner, On a new technique for solving the nonlinear conformable time-fractional differential equations, *Optical and Quantum Electronics* 49 (2017) 343.

94. K. Hosseini, Z. Ayati, R. Ansari, New exact traveling wave solutions of the Tzitzéica type equations using a novel exponential rational function method, *Optik* 148 (2017) 85–89.
95. K. Hosseini, Y.J. Xu, P. Mayeli, A. Bekir, P. Yao, Q. Zhou, Ö. Güner, A study on the conformable time-fractional Klein–Gordon equations with quadratic and cubic nonlinearities, *Optoelectronics and Advanced Materials - Rapid Communications* 11 (2017) 423–429.
96. K. Hosseini, P. Mayeli, R. Ansari, Modified Kudryashov method for solving the conformable time-fractional Klein–Gordon equations with quadratic and cubic nonlinearities, *Optik* 130 (2017) 737–742.
97. K. Hosseini, A. Bekir, R. Ansari, Exact solutions of nonlinear conformable time-fractional Boussinesq equations using the $\exp(-\phi(\zeta))$ -expansion method, *Optical and Quantum Electronics* 49 (2017) 131.
98. K. Hosseini, A. Bekir, M. Kaplan, New exact traveling wave solutions of the Tzitzéica-type evolution equations arising in non-linear optics, *Journal of Modern Optics* 64 (2017) 1688–1692.
99. K. Hosseini, R. Ansari, New exact solutions of nonlinear conformable time-fractional Boussinesq equations using the modified Kudryashov method, *Waves in Random and Complex Media* 27 (2017) 628–636.
100. K. Hosseini, E.Y. Bejarbaneh, A. Bekir, M. Kaplan, New exact solutions of some nonlinear evolution equations of pseudoparabolic type, *Optical and Quantum Electronics* 49 (2017) 241.
101. K. Hosseini, A. Bekir, R. Ansari, New exact solutions of the conformable time-fractional Cahn–Allen and Cahn–Hilliard equations using the modified Kudryashov method, *Optik* 132 (2017) 203–209.
102. J. Biazar, K. Hosseini, Analytic approximation of Volterra’s population model, *Journal of Applied Mathematics, Statistics and Informatics* 13 (2017) 5–17.
103. A. Korkmaz, K. Hosseini, Exact solutions of a nonlinear conformable time-fractional parabolic equation with exponential nonlinearity using reliable methods, *Optical and Quantum Electronics* 49 (2017) 278.
104. J. Biazar, K. Hosseini, An effective modification of Adomian decomposition method for solving Emden–Fowler type systems, *National Academy Science Letters* 40 (2017) 285–290.
105. D. Kumar, K. Hosseini, F. Samadani, The sine-Gordon expansion method to look for the traveling wave solutions of the Tzitzéica type equations in nonlinear optics, *Optik* 149 (2017) 439–446.
106. M. Kaplan, P. Mayeli, K. Hosseini, Exact traveling wave solutions of the Wu–Zhang system describing (1+1)-dimensional dispersive long wave, *Optical and Quantum Electronics* 49 (2017) 404.
107. K. Hosseini, P. Gholamin, Feng’s first integral method for analytic treatment of two higher dimensional nonlinear partial differential equations, *Differential Equations and Dynamical Systems* 23 (2015) 317–325.
108. K. Hosseini, R. Ansari, P. Gholamin, Exact solutions of some nonlinear systems of partial differential equations by using the first integral method, *Journal of Mathematical Analysis and Applications* 387 (2012) 807–814.
109. K. Hosseini, J. Biazar, R. Ansari, P. Gholamin, A new algorithm for solving differential equations, *Mathematical Methods in the Applied Sciences* 35 (2012) 993–999.

7. Awards

- Top 2% scientist (2023)
- Top 2% scientist (2022)
- Top 2% scientist (2021)
- Top 2% scientist (2020)

8. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022	Fall	Calculus 2	4		10
	Fall	Mathematics for Business	3		50
2022 - 2023	Spring	Ordinary Differential equations	4		50
	Spring	Numerical Analysis	3		10
	Spring	Partial Differential equations	4		10
	Fal	Special Topics	4		8
	Fal	Partial Differential equations	4		8
	Fal	Numerical Analysis	3		3