

Curriculum Vitae



Name: Dr. Mujahid Iqbal

Nationality: Pakistani

Date of Birth: 11th April, 1990

Current Position: Postdoctoral Fellowship in Dalian Maritime University, Dalian, China.

Address: House No. 2101, Unit#1, No. 163C, Hongling Road, Ganjingzi District, Dalian, China.

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High Cited Researcher: Top 2% World Scientist in years 2022, 2023 and 2024.

Google Scholar ID: <https://scholar.google.com/citations?user=M5TVAOkAAAAJ&hl=en>

Research gate ID: https://www.researchgate.net/profile/Mujahid_Iqbal9

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Academic Qualifications

- Postdoctoral Fellowship, College of Information Science and Technology, Dalian Maritime University, Dalian China. (Sep. 2024—Continue).
Supervisor Prof. Jianqiao Liu.
- Postdoctoral Fellowship, School of Mathematical Sciences, Jiangsu University, Zhenjiang China. (Sep. 2022—Aug. 2024).
Postdoc in Applied Mathematics, Supervised by Prof. Dianchen Lu.
- Ph.D., School of Mathematical Sciences, Jiangsu University, Zhenjiang China. (Sep. 2017—June 2020).
Ph.D. in Applied Mathematics, Supervised by Prof. Xianwei Xia & Prof. Dianchen Lu.
- Master, Department of Mathematics, Government College University Faisalabad, Pakistan. (Oct. 2014 —June 2016)
Master in Applied Mathematics.

Teaching/Research Experience

- Postdoctoral Fellowship, College of Information Science and Technology, Dalian Maritime University, Dalian China. (Sep. 2024—Continue).
- Postdoctoral Fellowship in School of Mathematical Sciences, Jiangsu University, Zhenjiang, Jiangsu, China. (Sep. 2022—Aug. 2024).
- Former Assistant Professor at National College of Business Administration & Economics, Sub-Campus Multan, Pakistan. (Sep. 2020—Aug. 2022).
- Former Assistant Professor (Visiting) at University of Education Lahore, D. G. Khan Campus. (Nov. 2020—June 2022).
- Former Assistant Professor (Visiting) at South Punjab Institute of Science and Education D. G. Khan. (Aug 2020—Sep 2021).
- Former Assistant Professor (Visiting) at Mir Chaker Khan Rind University of Technology D. G. Khan. (Sep. 2021—June 2022).
- Subject Specialist Teacher in Punjab Education Department. (Aug. 2012—Aug 2017).

Students Supervised

MS/ M. Phil completed: Supervised 12 student's thesis.

Awards and Honors

1. Ranked among Top 2% World Scientist in the years 2022, 2023 and 2024 in single year impact in the field of Applied Mathematics.
2. Awarded for Jiangsu University 2020 Excellent Doctoral Dissertation Award.
3. My name is listed among the World Scientists in the field of “Natural Sciences/Mathematics” by scientific indexing in 2021-2025.
4. Selected Outstanding student in “Jiangsu Provincial Government Scholarship” since 2019-2020.
5. HEC (Higher Education Commission of Pakistan) Approved Ph.D. and M.Phil/MS Supervisor.
6. Selected Outstanding Post Graduate student in 2020 for good quality work in Ph.D. dissertation.
7. Awarded “Jiangsu University Presidential Scholarship” to study Ph.D. at Jiangsu University China.
8. The best paper award in “8th Sino-foreign Postgraduate Academic forum (2018)” Jiangsu University China.
9. The best poster award in “9th Sino-foreign Postgraduate Academic forum (2019)” Jiangsu University China.
10. Achieved Chinese Language HSK (Level-II) Certificate.

Research Techniques and Skills

Research Area

- My research interests are in Nonlinear Partial Differential Equations, Soliton Wave Theory, Nonlinear Dynamics, Mathematical Physics, Fractional Calculus, Computational Simulations, Nonlinear Analysis, Wave Propagation in Ocean, Bifurcation and Chaotic Analysis of Dynamical Systems, Lie Symmetry Analysis, Conservation Laws, Symbolic Computation and Computational Methods for Partial Differential Equations.

Software Skills

- Latex, Scientific work place, Mathematica, Maple, MATLAB.

Research Summary:

Total Publications: 79

Corresponding Author Publications: 9

Total Citations: 2690

i10-index: 52

First Author Publications: 35

Cumulative Impact Factor: > 300

h-index: 29

List of Publications

1. **Mujahid Iqbal**, Jianqiao Liu, Aly R Seadawy, Huda D. Alrashdi, Reem Algethamie, Abeer Aljohani, Ce Fu. Analysis of periodic wave soliton structure for the wave propagation in nonlinear low-pass electrical transmission lines through analytical technique. **Ain Shams Engineering Journal**, 16(9) (2025) 103506. **(Impact Factor: 5.9, Q1)**.
2. **Mujahid Iqbal***, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Nonlinear behavior of dust acoustic periodic soliton structures of nonlinear damped modified Korteweg–de Vries equation in dusty plasma. **Results in Physics**, 59 (2024) 107533. **(Impact Factor: 4.6, Q1)**.
3. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Computational approaches for nonlinear gravity dispersive long waves and multiple soliton solutions for coupled system nonlinear (2+1)–dimensional Broer–Kaup–Kupershmit dynamical equation. **International Journal of Geometric Methods in Modern Physics**, 21(7) (2024) 2450126–71. **(Impact Factor: 2.2, Q1)**.
4. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Weakly restoring forces and shallow water waves with dynamical analysis of periodic singular solitons structures to the nonlinear Kadomtsev–Petviashvili–modified equal width equation. **Modern Physics Letters B**, 38 (27), (2024) 2450265. **(Impact Factor: 2.2, Q1)**.

5. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Computational approach and dynamical analysis of multiple solitary wave solutions for nonlinear coupled Drinfeld–Sokolov–Wilson equation. **Results in Physics**, 54 (2023) 107099. (**Impact Factor: 4.6, Q1**).
6. **Mujahid Iqbal***, Md Nur Alam, Dianchen Lu, Aly R Seadawy, Nahaa E Alsubaie, Salisu Ibrahim. On the exploration of dynamical optical solitons to the modify unstable nonlinear Schrödinger equation arising in optical fibers. **Optical and Quantum Electronics**, 56(5) (2024) 765. (**Impact Factor: 4.0, Q1**).
7. **Mujahid Iqbal**, Waqas Ali Faridi, Huda Daefallh Alrashdi, Abeer Aljohani, Muhammad Amin S Murad, Nazar Mohammad, Abdullah S Alsubaie. Nonlinear behavior of dispersive solitary wave solutions for the propagation of shock waves in the nonlinear coupled system of equations. **Scientific Reports**, 15(5) (2025) 27535. (**Impact Factor: 3.9, Q1**).
8. **Mujahid Iqbal**, A R Seadawy, Saad Althobaiti. Mixed soliton solutions for the (2+1)–dimensional generalized breaking soliton system via new analytical mathematical method. **Results in Physics**, 32 (2022) 105030. (**Impact Factor: 4.6, Q1**).
9. **Mujahid Iqbal***, Dianchen Lu, Aly R Seadawy, Ghulam Mustafa, Zhengdi Zhang, Muhammad Ashraf, Abdul Ghaffar. Dynamical analysis of soliton structures for the nonlinear third–order Klein–Fock–Gordon equation under explicit approach. **Optical and Quantum Electronics**, 56(4) (2024) 651. (**Impact Factor: 4.0, Q1**).
10. **Mujahid Iqbal**, A R Seadawy, Omar H. Khalil, Dianchen Lu. Propagation of long internal waves in density stratified ocean for the (2+1)–dimensional nonlinear Nizhnik–Novikov–Vesselov dynamical equation. **Results in Physics**, 16 (2020) 102838. (**Impact Factor: 4.6, Q1**).
11. **Mujahid Iqbal***, Waqas Ali Faridi, Reem Algethamie, Faizah A. H. Alomari, Muhammad Amin S. Murad, Nahaa E. Alsubaie, Aly R Seadawy. Extraction of newly soliton wave structure to the nonlinear damped Korteweg–de Vries dynamical equation through a computational technique. **Optical and Quantum Electronics**, 56 (2024) 1159. (**Impact Factor: 4.0, Q1**).
12. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Multiple optical soliton solutions for wave propagation in nonlinear low-pass electrical transmission lines under analytical approach. **Optical and Quantum Electronics**, 56(1) (2024) 35. (**Impact Factor: 4.0, Q1**).
13. **Mujahid Iqbal***, Dianchen Lu*, Aly R Seadawy, Nahaa E Alsubaie, Zhanar Umurzakhova, Ratbay Myrzakulov. Dynamical analysis of exact optical soliton structures of the complex nonlinear Kuralay–II equation through computational simulation. **Modern Physics Letters B**, 38(36), (2024) 2450367. (**Impact Factor: 2.2, Q1**).
14. **Mujahid Iqbal***, Dianchen Lu, Aly R Seadawy, Muhammad Ashraf, Hissah Saedoon Albaqawi, Khalid Ali Khan, Dean Chou. Investigation of solitons structures for

- nonlinear ionic currents microtubule and Mikhaillov–Novikov–Wang dynamical equations. **Optical and Quantum Electronics**, 56(3) (2024) 361. (**Impact Factor: 4.0, Q1**).
15. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu. Applications of nonlinear longitudinal wave equation in a magneto-electro-elastic circular rod and new solitary wave solutions. **Modern Physics Letters B**, 33(18) (2019) 1950210. (**Impact Factor: 2.2, Q1**).
 16. **Mujahid Iqbal***, Dianchen Lu, Maha Alammari, Aly R Seadawy, Nahaa E Alsubaie, Zhanar Umurzakhova, Ratbay Myrzakulov. A construction of novel soliton solutions to the nonlinear fractional Kairat–II equation through computational simulation. **Optical and Quantum Electronics**, 56(5) (2024) 845. (**Impact Factor: 4.0, Q1**).
 17. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Physical structure and multiple solitary wave solutions for the nonlinear Jaulent–Miodek hierarchy equation. **Modern Physics Letters B**, 38(16) (2024) 2341016. (**Impact Factor: 2.2, Q1**).
 18. **Mujahid Iqbal***, Md Nur Alam, Dianchen Lu, Aly R Seadawy, Nahaa E Alsubaie, Salisu Ibrahim. Applications of nonlinear longitudinal wave equation with periodic optical solitons wave structure in magneto electro elastic circular rod. **Optical and Quantum Electronics**, 56(6) (2024) 1031. (**Impact Factor: 4.0, Q1**).
 19. **Mujahid Iqbal***, Dianchen Lu, Aly R Seadawy, Faizah A. H. Alomari, Zhanar Umurzakhova, Ratbay Myrzakulov. Constructing the soliton wave structure to the nonlinear fractional Kairat–X dynamical equation under computational approach. **Modern Physics Letters B**, 39(02) (2024) 2450396. (**Impact Factor: 2.2, Q1**).
 20. **Mujahid Iqbal***, Waqas Ali Faridi, Maha Alammari, Faizah A. H. Alomari, Nahaa E Alsubaie, Salisu Ibrahim, Aly R Seadawy*. Dynamical analysis of optical soliton structures for wave propagation in nonlinear low–pass electrical transmission lines under effective approach. **Optical and Quantum Electronics**, 56(6) (2024) 1036. (**Impact Factor: 4.0, Q1**).
 21. **Mujahid Iqbal**, A R Seadawy. Instability of modulation wave train and disturbance of time period in slightly stable media for unstable nonlinear Schrödinger dynamical equation. **Modern Physics Letters B**, 34(supp01) (2020) 2150010. (**Impact Factor: 2.2, Q1**).
 22. **Mujahid Iqbal**, Waqas Ali Faridi et al. Nonlinear behavior of dispersive solitary wave solutions for the propagation of shock waves in the nonlinear coupled system of equations. **Scientific Reports**, In press (2025). (**Impact Factor: 3.9, Q1**).
 23. **Mujahid Iqbal***, Waqas Ali Faridi, Rashid Ali, Aly R. Seadawy, Ali A. Rajhi, Ali E. Anqi, Alaauldeen A. Duhduh, Sagr Alamri. Dynamical study of optical soliton structure to the nonlinear Landau–Ginzburg–Higgs equation through computational simulation. **Optical and Quantum Electronics**, 56(7) (2024) 1192. (**Impact Factor: 4.0, Q1**).
 24. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Structure of analytical and symbolic computational approach of multiple solitary wave solutions for nonlinear

- Zakharov–Kuznetsov modified equal width equation. **Numerical Methods for Partial Differential Equations**, 39(5) (2023) 3987–4006. **(Impact Factor: 1.7, Q1).**
25. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Xia Xianwei. Construction of bright–dark solitons and ion–acoustic solitary wave solutions of dynamical system of nonlinear wave propagation. **Modern Physics Letters A**, 34(37) (2019) 1950309. **(Impact Factor: 1.6, Q2).**
 26. **Mujahid Iqbal**, Jianqiao Liu, Aly R Seadawy, David Yaro, Huda D. Alrashdi, Abeer Aljohani, Ce Fu. Exploring the peakon solitons molecules and solitary wave structure to the nonlinear damped Korteweg–de Vries equation through efficient technique. **Open Physics**, 23 (2025) 20250198. **(Impact Factor: 1.8, Q2).**
 27. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu. Dispersive solitary wave solutions of nonlinear further modified Korteweg–de Vries dynamical equation in a unmagnetized dusty plasma via mathematical methods. **Modern Physics Letters A**, 33(37) (2018) 1850217. **(Impact Factor: 1.6, Q2).**
 28. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu. Construction of solitary wave solutions to the nonlinear modified Korteweg–de Vries dynamical equation in unmagnetized plasma via mathematical methods. **Modern Physics Letters A**, 33(32) (2018) 1850183. **(Impact Factor: 1.6, Q2).**
 29. **Mujahid Iqbal**, Jianqiao Liu, Aly R. Seadawy, David Yaro, Huda Daefallh Alrashdi, Abeer Aljohani, Ce Fu. Exploring the peakon solitons molecules and solitary wave structure to the nonlinear damped Korteweg–de Vries equation through efficient technique. **Open Physics**, In press (2025). **(Impact Factor: 1.8, Q2).**
 30. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Xia Xianwei. Construction of a weakly nonlinear dispersion solitary wave solution for the Zakharov–Kuznetsov-modified equal width dynamical equation. **Indian Journal of Physics**, 94(9) (2020) 1465–1474. **(Impact Factor: 1.7, Q3).**
 31. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Dynamical Structure of Analytical Multiple Solitons Solutions for Nonlinear Higher Dimensional Fokas Equation. **Nonlinear Engineering: Modeling and Application**, (Accepted). **(Impact Factor: 1.5, Q3).**
 32. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Dynamical analysis of multiple solitons structures for the nonlinear two dimensional generalized breaking soliton system. **Nonlinear Engineering: Modeling and Application**, (Accepted). **(Impact Factor: 1.5, Q3).**
 33. **Mujahid Iqbal***, Dianchen Lu, Waqas Ali Faridi, Muhammad Amin Sadiq Murad, Aly R Seadawy. A Novel Investigation on Propagation of Envelop Optical Soliton Structure Through a Dispersive Medium in the Nonlinear Whitham–Broer–Kaup Dynamical Equation. **International Journal of Theoretical Physics**, 63(5) (2024) 131. **(Impact Factor: 1.7, Q3).**

34. **Mujahid Iqbal***, Dianchen Lu, Aly R Seadawy, Faizah A. H. Alomari, Zhanar Umurzakhova, Nahaa E Alsubaie, Ratbay Myrzakulov. Exploration of unexpected optical mixed, singular, periodic and other soliton structure to the complex nonlinear Kuralay–IIA equation. **Optik**, 301 (2024) 171694. **(ESCI)**.
35. **Mujahid Iqbal**, A R Seadawy, Dianchen Lu, Zhengdi Zhang. Computational and Analytical Techniques for Long Dispersive Wave and Construction of Solitary Wave Solutions for Nonlinear Whitham-Broer-Kaup Equation. **Journal of Applied Nonlinear Dynamics**, 14 (01), (2025) 211-232. **(ESCI)**.
36. A R Seadawy, **Mujahid Iqbal***, Dianchen Lu. The nonlinear diffusion reaction dynamical system with quadratic and cubic nonlinearities with analytical investigations. **International Journal of Modern Physics B**, 34(9) (2020) 2050085. **(Impact Factor: 2.8, Q1)**.
37. Maha Alammari, **Mujahid Iqbal***, Salisu Ibrahim, Nahaa E Alsubaie, Aly R Seadawy. Exploration of solitary waves and periodic optical soliton solutions to the nonlinear two dimensional Zakharov–Kuzetsov equation. **Optical and Quantum Electronics**, 56(7) (2024) 1240. **(Impact Factor: 4.0, Q1)**.
38. Sultan Alqahtani, **Mujahid Iqbal***, Aly R Seadawy, Yosef Jazaa, Ali A Rajhi, Salah Mahmoud Boulaaras, Emad A Az-Zóbi. Analysis of mixed soliton solutions for the nonlinear Fisher and diffusion dynamical equations under explicit approach. **Optical and Quantum Electronics**, 56(4) (2024) 647. **(Impact Factor: 4.0, Q1)**.
39. A R Seadawy, **Mujahid Iqbal***, Dianchen Lu. Analytical methods via bright-dark solitons and solitary wave solutions of the higher–order nonlinear Schrodinger equation with fourth–order dispersion. **Modern Physics Letters B**, 33(35) (2019) 1950443. **(Impact Factor: 2.2, Q1)**.
40. Yosef Jazaa, **Mujahid Iqbal***, Aly R. Seadawy, Sultan Alqahtani, Ali A. Rajhi, Salah Mahmoud Boulaaras, Emad A Az-Zóbi. Dynamical study of optical soliton structure to the nonlinear Landau–Ginzburg–Higgs equation through computational simulation. **Optical and Quantum Electronics**, 56(7) (2024) 1181. **(Impact Factor: 4.0, Q1)**.
41. Sultan Alshehery, **Mujahid Iqbal***, Aly R Seadawy, Zhanar Umurzakhova, Ratbay Myrzakulov, Emad A Az-Zóbi. Construction of periodic wave soliton solutions for the nonlinear Zakharov–Kuznetsov modified equal width dynamical equation. **Optical and Quantum Electronics**, 56(8) (2024) 1381. **(Impact Factor: 4.0, Q1)**.
42. A R Seadawy, **Mujahid Iqbal***, Dianchen Lu. Propagation of long-wave with dissipation and dispersion in nonlinear media via generalized Kadomtsev-Petviashvili modified equal width-Burgers equation. **Indian Journal of Physics**, 94(5) (2020) 675-687. **(Impact Factor: 1.7, Q3)**.
43. A R Seadawy, **Mujahid Iqbal***, Dianchen Lu. Construction of soliton solutions of the modify unstable nonlinear Schrödinger dynamical equation in fiber optics. **Indian Journal of Physics**, 94(6) (2020) 823-832. **(Impact Factor: 1.7, Q3)**.

44. Maha Alammari, **Mujahid Iqbal***, Waqas Ali Faridi, Muhammad Amin S Murad, Reem Algethamie, Faizah A. H. Alomari, Abdullah S. Alsubaie, A R Seadawy, David Yaro. Exploring the nonlinear behavior of solitary wave structure to the integrable Kairat-X equation. **AIP Advances**, 14(11) (2024) 115006-12. **(Impact Factor: 1.4, Q4)**.
45. Md Nur Alam, **Mujahid Iqbal**, Mohammad Hassan, Md Fayz-Al-Asad, Muhammad Sajjad Hossain, Cemil Tunç. Bifurcation, phase plane analysis and exact soliton solutions in the nonlinear Schrodinger equation with Atangana's conformable derivative. **Chaos, Solitons & Fractals**, 182 (2024) 114724. **(Impact Factor: 5.6, Q1)**.
46. Waqas Ali Faridi, **Mujahid Iqbal**, Muhammad Bilal Riaz, Salman A AlQahtani, Abdul-Majid Wazwaz. The fractional soliton solutions of dynamical system arising in plasma physics: The comparative analysis. **Alexandria Engineering Journal**, 95 (2024) 247-261. **(Impact Factor: 6.8, Q1)**.
47. Muhammad Amin S. Murad, Waqas Ali Faridi, **Mujahid Iqbal**, Ahmed H. Arnous, Nehad Ali Shah, Jae Dong Chung. Analysis of Kudryashov's equation with conformable derivative via the modified Sardar sub-equation algorithm. **Results in Physics**, 60 (2024) 107678. **(Impact Factor: 4.6, Q1)**.
48. A R Seadawy, **Mujahid Iqbal**, Dianchen Lu. Applications of propagation of long-wave with dissipation and dispersion in nonlinear media via solitary wave solutions of generalized Kadomtsev–Petviashvili modified equal width dynamical equation. **Computers and Mathematics with Applications**, 78(11) (2019) 3620-3632. **(Impact Factor: 2.5, Q1)**.
49. A R Seadawy, **Mujahid Iqbal**. Propagation of the nonlinear damped Korteweg–de Vries equation in an unmagnetized collisional dusty plasma via analytical mathematical methods. **Mathematical Methods in the Applied Sciences**, 44(1) (2021) 737-748. **(Impact Factor: 1.8, Q1)**.
50. Dianchen Lu, A R Seadawy, **Mujahid Iqbal**. Mathematical method via construction of traveling and solitary wave solutions of three coupled system of nonlinear partial differential equations and their applications. **Results in Physics**, 11 (2018) 1161-1171. **(Impact Factor: 4.6, Q1)**.
51. Muhammad Amin S. Murad, Waqas Ali Faridi, Adil Jhangeer, **Mujahid Iqbal**, Ahmed H. Arnous, Fairouz Tchier. The fractional soliton solutions and dynamical investigation for planer Hamiltonian system of Fokas model in optical fiber. **Alexandria Engineering Journal**, 121 (2025) 27-37. **(Impact Factor: 6.8, Q1)**.
52. Muhammad Idress Afridi, Muhammad Amin S. Murad, Waqas Ali Faridi, **Mujahid Iqbal**, Ferdous Tawfiq, Ahmed H. Arnous. The fractional solitary wave profiles and dynamical insights with chaos analysis and sensitivity demonstration. **Results in Physics**, 65 (2024) 107971. **(Impact Factor: 4.6, Q1)**.

53. A R Seadawy, Hanadi Zahed, **Mujahid Iqbal**. Solitary Wave Solutions for the Higher Dimensional Jimo-Miwa Dynamical Equation via New Mathematical Techniques. **Mathematics**, 7(10) (2022) 1011. **(Impact Factor: 2.30, Q1)**.
54. A R Seadawy, **Mujahid Iqbal**, Dumitru Baleanu. Construction of traveling and solitary wave solutions for wave propagation in nonlinear low-pass electrical transmission lines. **Journal of King Saud University-Science**, 32(6) (2020) 2752-2761. **(Impact Factor: 3.6, Q1)**.
55. A R Seadawy, **Mujahid Iqbal**. Optical soliton solutions for nonlinear complex Ginzburg-Landau dynamical equation with laws of nonlinearity Kerr law media. **International Journal of Modern Physics B**, 34(19) (2020) 2050179. **(Impact Factor: 2.8, Q1)**.
56. Abdulmohsen D. Alruwaili, A R Seadawy, **Mujahid Iqbal**, Sidi Ahmed Ould Beinane. Dust-acoustic solitary wave solutions for mixed nonlinearity modified Korteweg-de Vries dynamical equation via analytical mathematical methods. **Journal of Geometry and Physics**, 176 (2022) 104504. **(Impact Factor: 1.2, Q1)**.
57. A R Seadawy, **Mujahid Iqbal**, Dianchen Lu. Nonlinear wave solutions of the Kudryashov-Sinelshchikov dynamical equation in mixtures liquid-gas bubbles under the consideration of heat transfer and viscosity. **Journal of Taibah University for Science**, 13(1) (2019) 1060–1072. **(Impact Factor: 4.1, Q1)**.
58. Muhammad Amin S. Murad, Waqas Ali Faridi, Adil Jhangeer, **Mujahid Iqbal**, Mubariz Garayev. Optical Solutions with Kudryashov's Arbitrary Type of Generalized Non-Local Nonlinearity and Refractive Index via Kudryashov Auxiliary Equation Method. **Fractals**, 3(04) (2025) 1-15. **(Impact Factor: 2.9, Q1)**.
59. N Nasreen, D Lu, U Younas, Aly R Seadawy, **Mujahid Iqbal**. Dynamics of optical pulses with the effect of second-order spatiotemporal dispersion. **Optical and Quantum Electronics**, 56(5) (2024) 852. **(Impact Factor: 4.0, Q1)**.
60. Ovidiu C Novac, Waqas Ali Faridi, Muhammad Abu Bakar, **Mujahid Iqbal**, Muhammad Amin Sadiq Murad, Nejla Mahjoub Said, Mohammed Sallah. The Formation of Exact Travelling Ferromagnetic Waves and Mathematically Forecasting of Nonlinear Dynamical Propagation. **Fractals**, 3(04) (2025) 2540154. **(Impact Factor: 2.9, Q1)**.
61. A R Seadawy, **Mujahid Iqbal**, Saad Althobaiti, Samy Sayed. Wave propagation for the nonlinear modified Kortewege-de Vries Zakharov–Kuznetsov and extended Zakharov–Kuznetsov dynamical equations arising in nonlinear wave media. **Optical and Quantum Electronics**, 53(2) (2021) 1-20. **(Impact Factor: 4.0, Q1)**.
62. Muhammad Amin S. Murad, Faraidun Kadir Hamasalh, Ahmed H. Arnous, Sandeep Malik, **Mujahid Iqbal**. Analysis of soliton solutions to the nonlinear conformable Schrödinger equation in weakly non-local media using two analytic algorithms. **Nonlinear Dynamics**, 113(10) (2025) 11881-11892. **(Impact Factor: 6.0, Q1)**.

63. Muhammad Amin S. Murad, Faraidun Kadir Hamasalh, Ahmed H. Arnous, Sandeep Malik, **Mujahid Iqbal**, Taher A Nofal. Optical solitons with conformable fractional evolution for the (3+1)–dimensional Sasa–Satsuma equation. **Optical and Quantum Electronics**, 56(10) (2024) 1733. **(Impact Factor: 4.0, Q1).**
64. Muhammad Amin S. Murad, Ahmed H. Arnous, Waqas Ali Faridi, **Mujahid Iqbal**, Kottakkaran Sooppy Nisar, Sachin Kumar. Two distinct algorithms for conformable time-fractional nonlinear Schrödinger equations with Kudryashov’s generalized non-local nonlinearity and arbitrary refractive index. **Optical and Quantum Electronics**, 56(8) (2024) 1320. **(Impact Factor: 4.0, Q1).**
65. A R Seadawy, **Mujahid Iqbal**, Dianchen Lu. Propagation of kink and anti-kink wave solitons for the nonlinear damped modified Korteweg-de Vries equation arising in ion-acoustic wave in an un-magnetized collisional dusty plasma. **Physica A: Statistical Mechanics and Its Applications**, 544 (2020) 123560. **(Impact Factor: 2.8, Q2).**
66. A R Seadawy, Dianchen Lu, **Mujahid Iqbal**. Application of mathematical methods on the system of dynamical equations for the ion sound and Langmuir waves. **Pramana-Journal of Physics**, 93(1) (2019) 10. **(Impact Factor: 2.1, Q2).**
67. Mourad Benzahi, Abderrahmane Zarái, Salah Boulaaras, Rashid Jan, **Mujahid Iqbal**. Blow up and lifespan of solutions for elastic membrane equation with delay. **Results in Applied Mathematics**, 21 (2024) 100426. **(Impact Factor: 1.3, Q2).**
68. Hanadi Zahed, A R Seadawy, **Mujahid Iqbal**. Structure of analytical ion-acoustic solitary wave solutions for the dynamical system of nonlinear wave propagation. **Open Physics**, 20(1) (2022) 313-333. **(Impact Factor: 1.8, Q2).**
69. A R Seadawy, **Mujahid Iqbal**. Dispersive propagation of optical solitons and solitary wave solutions of Kundu–Eckhaus dynamical equation via modified mathematical method. **Applied Mathematics–A Journal of Chinese Universities**, 38(1) (2023)16-26. **(Impact Factor: 1.3, Q2).**
70. Dianchen Lu, A R Seadawy, **Mujahid Iqbal**. Construction of new solitary wave solutions of generalized Zakharov–Kuznetsov–Benjamin–Bona–Mahony and simplified modified form of Camassa–Holm equations. **Open Physics**, 16(1) (2018) 896-909. **(Impact Factor: 1.8, Q2).**
71. Salisu Ibrahim, Salah Boulaaras, Abedallah Rababah, **Mujahid Iqbal**. Explicit Commutativity for Lamé Linear Time-Varying Differential Systems. **International Journal of Numerical Modelling-Electronic Networks Devices and Fields**, 37(6) (2025) e3309. **(Impact Factor: 1.7, Q2).**
72. Muhammad Amin S. Murad, **Mujahid Iqbal**, Ahmed H. Arnous, Yakup Yildirim, Anwar Ja’afar Mohamad Jawad, Layth Hussein, Anjan Biswas. Optical dromions for Radha–Lakshmanan model with fractional temporal evolution by modified simplest equation. **Journal of Optics**, (2024) 1–10. **(Impact Factor: 2.7, Q2).**
73. Muhammad Amin S. Murad, **Mujahid Iqbal**, Ahmed H. Arnous, Anjan Biswas, Yakup Yildirim, Ali Saleh Alshomrani. Optical dromions with fractional temporal evolution by

- enhanced modified tanh expansion approach. **Journal of Optics**, (2024) 1–10. (**Impact Factor: 2.7, Q2**).
74. Waqas Ali Faridi, **Mujahid Iqbal**, Haitham A Mahmoud. An Invariant Optical Soliton Wave Study on Integrable Model: A Riccati-Bernoulli Sub-Optimal Differential Equation Approach. **International Journal of Theoretical Physics**, 64(3) (2025) 1-23. (**Impact Factor: 1.7, Q3**).
 75. A R Seadawy, **Mujahid Iqbal**, Dianchen Lu. Ion-acoustic solitary wave solutions of nonlinear damped Korteweg–de Vries and damped modified Korteweg–de Vries dynamical equations. **Indian Journal of Physics**, 95(7) (2021) 1479-1489. (**Impact Factor: 1.7, Q3**).
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 79. Salisu Ibrahim, Salisu Ibrahim, Abdulnasir Isah, **Mujahid Iqbal**, Phang Chang, Dumitru Baleanu. Commutativity of Cascaded Connected Fractional Order Linear Time-Varying Systems. **Journal of Circuits, Systems and Computers**, (2025) 2550095. (**Impact Factor: 1.0, Q4**).

Participated in Seminars and Conferences

1. Talk Presented at 8th Sino-foreign Postgraduate Academic forum (2018)" Jiangsu University, Zhenjiang, China.
2. Poster Presented at "9th Sino-foreign Postgraduate Academic forum (2019)" Jiangsu University, Zhenjiang, China.
3. Participated at the International Conference on Mathematical Sciences-2022, The Islamia University of Bahawalpur, Bahawalpur, Pakistan, March 28-29, 2022.
4. Participated at the 2nd International Conference on Emerging Trends in Physics, The Islamia University of Bahawalpur, Bahawalpur, Pakistan, May 6-8, 2024.

5. Participated at the International Conference on Computer Sciences, Management, and Social Sciences (ICCSMSS-25), NCBA&E Multan Sub Campus and Kohsar University, Murree, Pakistan, July 11-12, 2025.

Participated in Funding's

1. National Natural Science Foundation Project: Computability and computational complexity in non-discrete systems (61070231).
2. National Natural Science Foundation Project: The appropriateness of fluid mechanics equations and related problems (11271164).
3. Jiangsu Natural Science Foundation Project: Study on spatiotemporal chaos of dissipated isolated waves in nonlinear systems (BK 97119).
4. Computational and simulation methods for materials and Energy applications: Analytical and computational wave solutions for some problems of distinct physical phenomena support by Taibah University, Saudi Arabia 445-9-733 (Completed) (Co-PI).
5. Applications of Partial differential equations in Optics.
6. Partial differential equations for dynamical system and its applications.

Guest Editor and Invited Reviewer of Well-Reputed International Journals

- **Guest Editor**

Leading Guest Editor in Symmetry MDPI Journal (Impact Factor: 2.2, Q2): Symmetry and Its Applications in Partial Differential Equations.

https://www.mdpi.com/journal/symmetry/special_issues/90J9V0JL6K

- **Peer Reviewer for Journals**

Nonlinear Dynamics, Mathematical Method in the Applied Sciences, Chaos, Solitons & Fractals, Qualitative Theory of Dynamical Systems, Journal of Taibah University for Science, Modern Physics Letters B, International Journal of Modern Physics B, Results in Physics, AIMS Mathematics, Frontier in Physics, Partial Differential Equations in Applied Mathematics, Complexity, Physica Scripta, Waves in Random and Complex Media, Optical and Quantum Electronics, Mathematics, Results in Mathematics, Mathematics Open, Journal of Applied Mathematics and Computational Mechanics, Optik, Fractal and Fractional, Contemporary Mathematics, International Journal of Applied and Computational Mathematics, Nonlinear Engineering: Modeling and Application, Scientific Reports, The European Physical Journal Plus, Journal of Umm Al-Qura University for Applied Sciences, Modern Physics Letters A, Symmetry, Axioms, Computation, Applied to Nonlinear Dynamics, Fractals, Indian Journal of Physics, Journal of Computational and Applied Mathematics, International Journal of Computer Mathematics, PLOS One, Journal of Optics.

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Undergraduate level > Calculus-III, Vector and Tensor Analysis, Ordinary Differential Equations.

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