

Ahmad Javid

Assistant Professor

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About

Dr. Ahmad Javid is working as Assistant Professor in the School of Natural Sciences. Dr. Ahmad Javid has a PhD in Mathematics. Dr. Ahmad Javid has published 31 research articles & conference papers having a citation count of 632, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics University of the Punjab , Pakistan	2016 - 2020
MPhil in Mathematics University of the Punjab , Pakistan	2013 - 2015
MSc in Mathematics International Islamic University , Pakistan	2011 - 2013
BSc in Double Maths And Physics University of the Punjab , Pakistan	2009 - 2011

Experience

Assistant Professor School of Natural Sciences	2021- Present
Lecturer University of Sargodha , Sargodha	2015 - 2016
Research Assistant Lahore University of management Sciences , Lahore University of management Sciences, Lahore	2014 - 2015

Research Articles

Interaction solutions and qualitative analysis of the Painlevé integrable (2+1)-dimensional extended Kadomtsev–Petviashvili equation <i>Rutaba Saleem Ahmad Javid</i> <i>Alexandria Engineering Journal</i> , Volume:128, Pages:611-627 Impact Factor: 6.8 Quartile: 1 DOI: https://doi.org/10.1016/j.aej.2025.05.013	2025
Exploring the (3+1)-dimensional korteweg-de vries and calogero-bogoyavlenskii-schiff combined model: travelling waves, bifurcation analysis, quasi-periodic structures and sensitivity analysis <i>Mohammad Asadullah Ahmad Javid Nauman Raza Younes Chahlaoui Ahmet Bekir</i> <i>Nonlinear Dynamics</i> , Pages 1-19 Impact Factor: 6.000 Quartile: 1 DOI: https://doi.org/10.1007/s11071-025-11538-w	2025
Envelope solitons and wave structures in the (2+1)-dimensional KP equation <i>Mohammad Asadullah Ahmad Javid Nauman Raza Younes Chahlaoui Ahmet Bekir</i> <i>Modern Physics Letters B</i> , Pages: 21 Impact Factor: 1.8 Quartile: 2 Citations: 1 DOI: DOI: 10.1142/S021798492550174X	2025
Dynamical analysis, chaos and multistability of the resonant third-order nonlinear Schrödinger equation through phase portraits <i>Mohammad Asadullah Ahmad Javid Nauman Raza Mustafa Bayram Ahmet Bekir</i> <i>Modern Physics Letters A</i> , Volume 40, No. 11-12, Article Number 2550026	2025

Impact Factor: 1.500 Quartile: 2 DOI: https://doi.org/10.1142/S0217732325500269	
Solitary Wave Solutions in (2+1) Dimensions: The KdV Equation Derived from Ideal Fluid Models <i>Ahmad Javid Mati Youssoufa Shahram Rezapour Mustafa Inc Sadia Sadiq</i> <i>International Journal of Theoretical Physics</i> , Volume:63, Issue:5, Article Number: 105, Pages:13 Impact Factor: 1.4 Quartile: 3 Citations: 4 DOI: 10.1007/s10773-024-05635-6	2024
Bi-directional solitons of dual-mode Gardner equation derived from ideal fluid model <i>Sadia Sadiq Ahmad Javid Muhammad Bilal Riaz Ghada Ali Basendwah Dr. Nauman Raza</i> <i>Results in Physics</i> , Volume 57, Article Number: 107337 Impact Factor: 5.3 Quartile: 1 Citations: 4 DOI: 10.1016/j.rinp.2024.107337	2024
Novel solitary wave solutions in dual-mode simplified modified Camassa-Holm equation in shallow water waves <i>Sadia Sadiq Ahmad Javid</i> <i>Optical and Quantum Electronics</i> , Volume 56, Article Number 464, Impact Factor: 3.0 Quartile: 2 Citations: 6 DOI: 10.1007/s11082-023-06097-6	2024
Optical dark, singular and bright soliton solutions with dual-mode fourth-order nonlinear Schrödinger equation involving different nonlinearities <i>Badar e Alam Ahmad Javid</i> <i>Alexandria Engineering Journal</i> , Volume:87, Page:329-339 Impact Factor: 6.8 Quartile: 1 Citations: 5 DOI: 10.1016/j.aej.2023.12.037	2024
Breathers, Soliton and Hybrid Solutions for generalized (2 + 1) dimensional Soliton Equation <i>Ahmad Javid Muhammad Ahtisham Ilyas</i> <i>Optik</i> , Volume 293, Article Number 171405 Impact Factor: 3.1 Quartile: 2 Citations: 5 DOI: https://doi.org/10.1016/j.ijleo.2023.171405	2023
Novel Optical bi-directional solutions to the new dual-mode derivative nonlinear Schrödinger equation <i>Badar e Alam Ahmad Javid</i> <i>Physica scripta</i> , Volume 98, Article Number 105247 Impact Factor: 2.9 Quartile: 2 Citations: 6 DOI: 10.1088/1402-4896/acfa3b	2023
Optical dual-waves to a new dual-mode extension of a third order dispersive nonlinear Schrödinger's equation <i>Badar E Alam Ahmad Javid</i> <i>Physics Letters A</i> , Volume 480, Article Number 128954 Impact Factor: 2.707 Quartile: 2 Citations: 15 DOI: https://doi.org/10.1016/j.physleta.2023.128954	2023
Painlevé analysis, multi-kinks and hybrid nonlinear waves for an extended (3 + 1)-dimensional B-type Kadomtsev-Petviashvili equation <i>Muhammad Ahtisham Ilyas Ahmad Javid Abdul Majid Wazwaz</i> <i>Physica Scripta</i> , Volume 98, Issue 9, Article Number 095229 Impact Factor: 2.9 Quartile: 2 Citations: 8 DOI: 10.1088/1402-4896/acecb2	2023
Analytical soliton solutions for the (2 + 1)-perturbed and higher order cubic–quintic nonlinear Schrödinger equations <i>Rafiq Ahmad Ahmad Javid</i> <i>Optical and Quantum Electronics</i> , Volume 55, Issue 10, Article Number 850 Impact Factor: 3.0 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1007/s11082-023-05108-w	2023
Dark-singular, Dark-bright and other optical solitons for conformable resonant nonlinear Schrödinger's equation incorporating Kerr law nonlinearity <i>Ahmad Javid Shahid Ali Nauman Raza Mustafa Inc</i> <i>Optical and Quantum Electronics</i> , Volume 55, Article Number 558	2023

Impact Factor: 2.794 Quartile: 2 Citations: 4 DOI: 10.1007/s11082-023-04733-9	
Explicit Solutions for the Conformable Regularized Long Wave Burger's Equation <i>Shahid Ali Ahmad Javid</i> <i>Journal of Applied Analysis and Computation</i> , Volume 13, Issue 1, Pages 344-358 Impact Factor: 1.429 Quartile: 2 DOI: doi: 10.11948/20220135	2023
Multiple rational rogue waves for higher dimensional nonlinear evolution equations via symbolic computation approach <i>Saima Arshed Nauman Raza Asma Rashid Butt Ahmad Javid J.F.Gómez-Aguilar</i> <i>Journal of Ocean Engineering and Science</i> , Volume 8, Issue 1, Pages 33-41 Impact Factor: 4.803 Quartile: 1 Citations: 19 DOI: https://doi.org/10.1016/j.joes.2021.11.001	2023
Chiral solitons of (2 + 1)-dimensional stochastic chiral nonlinear Schrödinger equation <i>Saima Arshed Nauman Raza Ahmad Javid Haci Mehmet Baskonus</i> <i>International Journal of Geometric Methods in Modern Physics</i> , Volume 19, No. 10, Article Number 2250149 (16 pages) Impact Factor: 1.873 Quartile: 2 Citations: 20 DOI: https://doi.org/10.1142/S0219887822501493	2022
Complexiton and resonant multi-solitons of a (4 + 1)-dimensional Boiti–Leon–Manna–Pempinelli equation <i>Nauman Raza Ahmad Javid Mustafa Inc Melike Kaplan</i> <i>Optical and Quantum Electronics</i> , Volume 54, Article Number 95 Impact Factor: 3.0 Quartile: 2 Citations: 31 DOI: https://doi.org/10.1007/s11082-021-03487-6	2022
Optical solitons and stability regions of the higher order nonlinear Schrödinger's equation in an inhomogeneous fiber <i>Nauman Raza Ahmad Javid Asma Rashid Butt Haci Mehmet Baskonus</i> <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , Pages 1-13 Impact Factor: 2.007 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1515/ijnsns-2021-0165	2021
Dual-wave of resonant nonlinear Schrödinger's dynamical equation with different nonlinearities <i>Ahmad Javid Aly R. Seadawy Nauman Raza</i> <i>Physics Letters A</i> , Volume 407, Article Number 127446 Impact Factor: 2.707 Quartile: 2 Citations: 27 DOI: https://doi.org/10.1016/j.physleta.2021.127446	2021
A study on single-iteration sobolev descent for linear initial value problems <i>Sultan Sial Aly R Seadawy Nauman Raza Adnan Khan Ahmad Javid</i> <i>Optical and Quantum Electronics</i> , Volume:53, Issue:3, Article Number 135 Impact Factor: 2.794 Quartile: 2 Citations: 7 DOI: https://doi.org/10.1007/s11082-021-02756-8	2021
Optical solitons and stability analysis for the generalized second-order nonlinear Schrödinger equation in an optical fiber <i>Nauman Raza Saima Arshed Ahmad Javid</i> <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , Volume:21, Issue:7, Pages 855-863 Impact Factor: 2.007 Quartile: 2 Citations: 54 DOI: https://doi.org/10.1515/ijnsns-2019-0287	2020
Modulation instability and optical solitons of radhakrishnan-kundu-lakshmanan model <i>Nauman Raza Ahmad Javid</i> <i>Journal of Applied Analysis and Computation</i> , Volume:10, Issue:4, Pages 1375-1395 Impact Factor: 1.827 Quartile: 2 Citations: 6 DOI: 10.11948/20190203	2020
Polynomial solution of singular differential equations using Weighted Sobolev gradients <i>Nauman Raza Ahmad Javid Sultan Sial Muhammad Dur -e-Ahmad</i> <i>International Journal of Computer Mathematics</i> , Volume:97, Issue:7, Pages 1545-1561 Impact Factor: 1.931 Quartile: 2 Citations: 2	2020

DOI: <https://doi.org/10.1080/00207160.2019.1634261>

Chiral solitons of the (1 + 2)-dimensional nonlinear Schrodinger's equation

2019

Ahmad Javid Nauman Raza

Modern Physics Letters B, Volume:33, No. 32, Article Number: 1950401, Pages:12

Impact Factor: 1.224 | **Quartile:** 3 | **Citations:** 27

DOI: <https://doi.org/10.1142/S0217984919504013>

Optical dark and dark-singular soliton solutions of (1+2)-dimensional chiral nonlinear Schrodinger's equation

2019

Ahmad Javid Nauman Raza

Waves in Random and Complex Media, Volume 29(3), Pages 496-508

Impact Factor: 3.330 | **Quartile:** 1 | **Citations:** 129

DOI: <https://doi.org/10.1080/17455030.2018.1451009>

New exact spatial and periodic-singular soliton solutions in nematic liquid crystal

2019

Ahmad Javid Nauman Raza Qin Zhou Muhammad Abdullah

Optical and Quantum Electronics, Volume:51, Article Number:147, Pages:20

Impact Factor: 1.842 | **Quartile:** 3 | **Citations:** 10

DOI: <https://doi.org/10.1007/s11082-019-1861-5>

Multi-solitons of Thermophoretic Motion Equation Depicting the Wrinkle Propagation in Substrate-Supported Graphene Sheets

2019

Ahmad Javid Nauman Raza Mohammad Safaa Osman

Communications in Theoretical Physics, Volume: 71, No.4, Pages:362-366

Impact Factor: 1.322 | **Quartile:** 3 | **Citations:** 114

DOI: DOI 10.1088/0253-6102/71/4/362

Dynamics of optical solitons with Radhakrishnan–Kundu–Lakshmanan model via two reliable integration schemes

2019

Nauman Raza Ahmad Javid

Optik, Volume:178, Pages:557-566

Impact Factor: 2.187 | **Quartile:** 2 | **Citations:** 37

DOI: <https://doi.org/10.1016/j.ijleo.2018.09.133>

Generalization of optical solitons with dual dispersion in the presence of Kerr and quadratic-cubic law nonlinearities

2019

Nauman Raza Ahmad Javid

Modern Physics Letters B, Volume:33, No. 01, Article Number: 1850427, Pages:10

Impact Factor: 1.224 | **Quartile:** 3 | **Citations:** 21

DOI: <https://doi.org/10.1142/S0217984918504274>

Singular and dark optical solitons to the well posed Lakshmanan–Porsezian–Daniel model

2018

Ahmad Javid Nauman Raza

Optik, Volume:171, Pages:120-129

Impact Factor: 1.914 | **Quartile:** 3 | **Citations:** 52

DOI: <https://doi.org/10.1016/j.ijleo.2018.06.021>