

List of Publications

Published Research Papers:

1. **Brij Mohan**, Sachin Kumar and Raj Kumar: On investigation of kink-solitons and rogue waves to a new integrable (3+1)-dimensional KdV-type generalized equation in nonlinear sciences, Nonlinear Dynamics, 113:10261-10276 (2024). **Indexing:** SCIE, Scopus, MCQ: 0.81 (2023), IF: 5.6, SJR: 1.201 (Q1).
2. **Brij Mohan**, Sachin Kumar: Generalization and analytic exploration of soliton solutions for nonlinear evolution equations via a novel symbolic approach in fluids and nonlinear sciences, Chinese Journal of Physics, 92:10-21 (2024). **Indexing:** SCIE, Scopus, MCQ: 0.27 (2024), IF: 4.6, SJR: 0.587 (Q2).
3. **Brij Mohan**, Sachin Kumar and Raj Kumar: Higher-order rogue waves and dispersive solitons of a novel P-type (3+1)-D evolution equation in soliton theory and nonlinear waves, Nonlinear Dynamics, 111:20275-20288 (2023). **Indexing:** SCIE, Scopus, MCQ: 0.81 (2023), IF: 5.6, SJR: 1.201 (Q1).
4. Sachin Kumar, **Brij Mohan**: A novel analysis of Cole-Hopf transformations in different dimensions, solitons, and rogue waves for a (2+1)-dimensional shallow water wave equation of ion-acoustic waves in plasmas, Physics of Fluids, 35:127128 (2023). **Indexing:** SCIE, Scopus, MCQ: 0.21 (2011), IF: 4.6, SJR: 0.900 (Q1).
5. **Brij Mohan**, Sachin Kumar: Rogue-wave structures for a generalized (3+1)-dimensional nonlinear wave equation in liquid with gas bubbles, Physica Scripta, 99:105291 (2024). **Indexing:** SCIE, Scopus, MCQ: 0.08 (2013), IF: 2.6, SJR: 0.388 (Q2).