

# Nauman Raza

## List of Publications by Year in descending order

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89  
papers

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citations

218592

26  
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302012

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90  
docs citations

90  
times ranked

590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple rational rogue waves for higher dimensional nonlinear evolution equations via symbolic computation approach. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 33-41.	1.7	7
2	Optical solitons and stability regions of the higher order nonlinear Schrödinger's equation in an inhomogeneous fiber. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2023, 24, 567-579.	0.4	5
3	New and more dual-mode solitary wave solutions for the Kraenkel-Manna-Merle system incorporating fractal effects. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 2964-2983.	1.2	7
4	A variety of fractional soliton solutions for three important coupled models arising in mathematical physics. <i>International Journal of Modern Physics B</i> , 2022, 36, .	1.0	9
5	Extraction of new bright and Kink soliton solutions related to Ginzburg Landau equation incorporating fractal effects. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	1.5	5
6	Complexiton and resonant multi-solitons of a (4 + 1)-dimensional Boiti-Leon-Manna-Pempinelli equation. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	1.5	16
7	Optical solitons related to (2+1)-dimensional Kundu-Mukherjee-Naskar model using an innovative integration architecture. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2022, 31, .	1.1	14
8	The homotopy simulation of MHD time dependent three dimensional shear thinning fluid flow over a stretching plate. <i>Chaos, Solitons and Fractals</i> , 2022, 157, 111888.	2.5	9
9	Abundant new optical soliton solutions related to q-deformed Sinh-Gordon model using two innovative integration architectures. <i>Results in Physics</i> , 2022, 35, 105358.	2.0	17
10	A variety of soliton solutions for the Mikhailov-Novikov-Wang dynamical equation via three analytical methods. <i>Journal of Geometry and Physics</i> , 2022, 176, 104515.	0.7	18
11	New Optical Solitons with Variational Principle and Collective Variable Strategy for Cold Bosons in Zig-Zag Optical Lattices. <i>Journal of Mathematics</i> , 2022, 2022, 1-14.	0.5	3
12	Abundant soliton-type solutions to the new generalized KdV equation via auto-Bäcklund transformations and extended transformed rational function technique. <i>Optical and Quantum Electronics</i> , 2022, 54, .	1.5	12
13	Phase characterization and new optical solitons of a pulse passing through nonlinear dispersive media. <i>Modern Physics Letters B</i> , 2022, 36, .	1.0	5
14	Painlevé analysis, dark and singular structures for pseudo-parabolic type equations. <i>Modern Physics Letters B</i> , 2022, 36, .	1.0	1
15	Optical solitons and qualitative analysis of nonlinear Schrodinger equation in the presence of self steepening and self frequency shift. <i>Results in Physics</i> , 2022, 39, 105753.	2.0	9
16	A study on single-iteration sobolev descent for linear initial value problems. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	7
17	Optical solitons in birefringent fibers with quadratic-cubic nonlinearity using three integration architectures. <i>AIP Advances</i> , 2021, 11, .	0.6	25
18	The unified method for abundant soliton solutions of local time fractional nonlinear evolution equations. <i>Results in Physics</i> , 2021, 22, 103979.	2.0	48

#	ARTICLE	IF	CITATIONS
19	Computational and bright soliton solutions and sensitivity behavior of Camassa-Holm and nonlinear Schrödinger dynamical equation. International Journal of Modern Physics B, 2021, 35, 2150157.	1.0	15
20	Magneto-hydrodynamics (MHD) flow analysis with mixed convection moves through a stretching surface. AIP Advances, 2021, 11, .	0.6	30
21	New and more fractional soliton solutions related to generalized Davey-Stewartson equation using oblique wave transformation. Modern Physics Letters B, 2021, 35, 2150317.	1.0	11
22	Painlevé analysis of Fokas-Lenells equation with fractal temporal evolution. Modern Physics Letters B, 2021, 35, 2150351.	1.0	2
23	Sensitive visualization of the fractional wazwaz-benjamin-bona-mahony equation with fractional derivatives: A comparative analysis. Results in Physics, 2021, 25, 104171.	2.0	26
24	Fractional soliton dynamics of electrical microtubule transmission line model with local M-derivative. Communications in Theoretical Physics, 2021, 73, 095002.	1.1	12
25	Computational Soliton solutions for the variable coefficient nonlinear Schrödinger equation by collective variable method. Optical and Quantum Electronics, 2021, 53, 1.	1.5	9
26	Symbolic computation and sensitivity analysis of nonlinear Kudryashov's dynamical equation with applications. Physica Scripta, 2021, 96, 105216.	1.2	38
27	Practical analytical approaches for finding novel optical solitons in the single-mode fibers. Chinese Journal of Physics, 2021, 72, 475-486.	2.0	34
28	Extraction of new super-Gaussian solitons via collective variables. Optical and Quantum Electronics, 2021, 53, 1.	1.5	14
29	Novel optical solitons to the perturbed Gerdjikov-Ivanov equation via collective variables. Optical and Quantum Electronics, 2021, 53, 1.	1.5	8
30	Exact solutions for Kraenkel-Manna-Merle model in saturated ferromagnetic materials using $\hat{I}^2$ -derivative. Physica Scripta, 2021, 96, 124018.	1.2	17
31	Sensitive behavior and optical solitons of complex fractional Ginzburg-Landau equation: A comparative paradigm. Results in Physics, 2021, 28, 104533.	2.0	13
32	New auxiliary equation approach to derive solutions of fractional resonant Schrödinger equation. Analysis and Mathematical Physics, 2021, 11, 1.	0.6	19
33	Soliton solutions of the generalized Davey-Stewartson equation with full nonlinearities via three integrating schemes. Ain Shams Engineering Journal, 2021, 12, 3091-3098.	3.5	21
34	An explicit plethora of soliton solutions for a new microtubules transmission lines model: A fractional comparison. Modern Physics Letters B, 2021, 35, .	1.0	4
35	Polynomial solution of singular differential equations using Weighted Sobolev gradients. International Journal of Computer Mathematics, 2020, 97, 1545-1561.	1.0	2
36	Optical solitons perturbation of Fokas-Lenells equation with full nonlinearity and dual dispersion. Chinese Journal of Physics, 2020, 63, 314-324.	2.0	59

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37	Dynamical analysis and phase portraits of two-mode waves in different media. Results in Physics, 2020, 19, 103650.	2.0	23
38	Chiral bright and dark soliton solutions of Schrödinger's equation in $(1+2)$ -dimensions. Ain Shams Engineering Journal, 2020, 11, 1237-1241.	3.5	23
39	Nonlinear self-adjointness, conserved quantities, bifurcation analysis and travelling wave solutions of a family of long-wave unstable lubrication model. Pramana - Journal of Physics, 2020, 94, 1.	0.9	29
40	Optical bright, dark and dipole solitons with derivative nonlinearity in the presence of parity-time-symmetric lattices. Modern Physics Letters B, 2020, 34, 2050174.	1.0	2
41	Abundant fractional solitons to the coupled nonlinear Schrödinger equations arising in shallow water waves. International Journal of Modern Physics B, 2020, 34, 2050162.	1.0	16
42	Dynamical behavior of micro-structured solids with conformable time fractional strain wave equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126683.	0.9	40
43	Improved $\Phi(x)$ -Expansion Approach for Burgers Equation in Nonlinear Dynamical Model of Ion Acoustic Waves. Brazilian Journal of Physics, 2020, 50, 254-262.	0.7	12
44	Optical solitons and stability analysis for the generalized second-order nonlinear Schrödinger equation in an optical fiber. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, 21, 855-863.	0.4	35
45	MODULATION INSTABILITY AND OPTICAL SOLITONS OF RADHAKRISHNAN-KLUNDU-LAKSHMANAN MODEL. Journal of Applied Analysis and Computation, 2020, 10, 1375-1395.	0.2	2
46	New optical solitons in nonlinear negative-index materials with Bohm potential. Indian Journal of Physics, 2019, 93, 657-663.	0.9	10
47	Heat transfer analysis of Walters-B fluid with Newtonian heating through an oscillating vertical plate by using fractional Caputo-Fabrizio derivatives. Mechanics of Time-Dependent Materials, 2019, 23, 133-151.	2.3	7
48	Chiral solitons of the $(1+2)$ -dimensional nonlinear Schrodinger's equation. Modern Physics Letters B, 2019, 33, 1950401.	1.0	22
49	Dynamics of optical solitons incorporating Kerr dispersion and self-frequency shift. Modern Physics Letters B, 2019, 33, 1950220.	1.0	4
50	Optical solitons for coupled Fokas-Lenells equation in birefringence fibers. Modern Physics Letters B, 2019, 33, 1950317.	1.0	44
51	Dipole and Combo Optical Solitons in Birefringent Fibers in the Presence of Four-Wave Mixing. Communications in Theoretical Physics, 2019, 71, 723.	1.1	10
52	Optical dark and singular solitons of generalized nonlinear Schrödinger's equation with anti-cubic law of nonlinearity. Modern Physics Letters B, 2019, 33, 1950158.	1.0	27
53	New exact spatial and periodic-singular soliton solutions in nematic liquid crystal. Optical and Quantum Electronics, 2019, 51, 1.	1.5	7
54	Optical solitons in nematic liquid crystals with Kerr and parabolic law nonlinearities. Optical and Quantum Electronics, 2019, 51, 1.	1.5	79

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55	Multi-solitons of Thermophoretic Motion Equation Depicting the Wrinkle Propagation in Substrate-Supported Graphene Sheets. <i>Communications in Theoretical Physics</i> , 2019, 71, 362.	1.1	98
56	Analytical study of resonant optical solitons with variable coefficients in Kerr and non-Kerr law media. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	66
57	Explicit solutions of the (2 + 1)-dimensional Hirota-Maccari system arising in nonlinear optics. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950360.	1.0	42
58	Bright and dark solitons in (n+1)-dimensions with spatio-temporal dispersion. <i>Journal of Optics (India)</i> , 2019, 48, 594-605.	0.8	7
59	Generalization of optical solitons with dual dispersion in the presence of Kerr and quadratic-cubic law nonlinearities. <i>Modern Physics Letters B</i> , 2019, 33, 1850427.	1.0	20
60	An analytical method for soliton solutions of perturbed Schrödinger's equation with quadratic-cubic nonlinearity. <i>Modern Physics Letters B</i> , 2019, 33, 1950018.	1.0	58
61	Unsteady magneto-hydrodynamics flow between two orthogonal moving porous plates. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	107
62	Dynamics of optical solitons with Radhakrishnan-Kundu-Lakshmanan model via two reliable integration schemes. <i>Optik</i> , 2019, 178, 557-566.	1.4	30
63	On soliton solutions of time fractional form of Sawada-Kotera equation. <i>Nonlinear Dynamics</i> , 2019, 95, 391-405.	2.7	63
64	Optical dark and dark-singular soliton solutions of (1+2)-dimensional chiral nonlinear Schrodinger's equation. <i>Waves in Random and Complex Media</i> , 2019, 29, 496-508.	1.6	89
65	Exact periodic and explicit solutions of higher dimensional equations with fractional temporal evolution. <i>Optik</i> , 2018, 156, 628-634.	1.4	41
66	Analytical soliton solutions of Biswas-Milovic equation in Kerr and non-Kerr law media. <i>Optik</i> , 2018, 157, 993-1002.	1.4	39
67	Optical dark and singular solitons to the Biswas-Milovic equation in nonlinear optics with spatio-temporal dispersion. <i>Optik</i> , 2018, 158, 1049-1057.	1.4	54
68	Effects of heat and mass transfer on unsteady boundary layer flow of a chemical reacting Casson fluid. <i>Results in Physics</i> , 2018, 8, 610-620.	2.0	39
69	New exact periodic elliptic wave solutions for extended quantum Zakharov-Kuznetsov equation. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	17
70	Optical soliton solutions of the cubic-quintic non-linear Schrödinger's equation including an anti-cubic term. <i>Journal of Modern Optics</i> , 2018, 65, 1431-1436.	0.6	30
71	Exact periodic and explicit solutions of the conformable time fractional Ginzburg Landau equation. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	18
72	Analysis of blood flow with nanoparticles induced by uniform magnetic field through a circular cylinder with fractional Caputo derivatives. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 446, 28-36.	1.0	15

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73	Exact Solutions of Nonlinear Diffusive Predator-Prey System by New Extension of Tanh Method. Journal of Computational and Theoretical Nanoscience, 2018, 15, 3195-3200.	0.4	2
74	New optical solitons of TzitzeÅca type evolution equations using extended trial approach. Optical and Quantum Electronics, 2018, 50, 1.	1.5	1
75	Approximate Solution and Analysis of Smoking Epidemic Model with Caputo Fractional Derivatives. International Journal of Applied and Computational Mathematics, 2018, 4, 1.	0.9	13
76	On solitons: the biomolecular nonlinear transmission line models with constant and time variable coefficients. Waves in Random and Complex Media, 2018, 28, 553-569.	1.6	28
77	Analytic study on optical solitons in parity-time-symmetric mixed linear and nonlinear modulation lattices with non-Kerr nonlinearities. Optik, 2018, 173, 249-262.	1.4	34
78	Bright, dark and dark-singular soliton solutions of nonlinear SchrÅdinger's equation with spatio-temporal dispersion. Journal of Modern Optics, 2018, 65, 1975-1982.	0.6	39
79	Singular and dark optical solitons to the well posed LakshmananÅPorsezianÅDaniel model. Optik, 2018, 171, 120-129.	1.4	51
80	Semi-analytical technique for the solution of fractional Maxwell fluid. Canadian Journal of Physics, 2017, 95, 472-478.	0.4	21
81	A hybrid technique for the solution of unsteady Maxwell fluid with fractional derivatives due to tangential shear stress. Fluid Dynamics, 2017, 52, 713-721.	0.2	4
82	Approximate Solution of Nonlinear Klein-Gordon Equation Using Sobolev Gradients. Journal of Function Spaces, 2016, 2016, 1-7.	0.4	2
83	NUMERICAL SOLUTIONS OF INTEGRO-DIFFERENTIAL EQUATIONS USING SOBOLEV GRADIENT METHODS. International Journal of Computational Methods, 2012, 09, 1250046.	0.8	6
84	SIMULATION STUDY OF PROPAGATION OF PULSES IN OPTICAL FIBER COMMUNICATION SYSTEMS USING SOBOLEV GRADIENT AND SPLIT-STEP FOURIER METHODS. International Journal of Computational Methods, 2009, 06, 119-130.	0.8	4
85	The chaotic, supernonlinear, periodic, quasiperiodic wave solutions and solitons with cascaded system. Waves in Random and Complex Media, 0, , 1-15.	1.6	9
86	Computational approach and flow analysis of chemically reactive tangent hyperbolic nanofluid over a cone and plate. Waves in Random and Complex Media, 0, , 1-15.	1.6	12
87	An effective computational approach and sensitivity analysis to pseudo-parabolic-type equations. Waves in Random and Complex Media, 0, , 1-15.	1.6	7
88	Computational approach and dynamical aspects of fractional second grade fluid with heat and mass transport in cylindrical domain. Waves in Random and Complex Media, 0, , 1-20.	1.6	1
89	A novel approach of numerical optimization for control theory problems based on generalization of Gigena's method. Asian Journal of Control, 0, , .	1.9	0