

Abdul Hamid Kara

List of Publications by Citations

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196
papers

3,025
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46
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198
ext. papers

3,383
ext. citations

2.3
avg, IF

5.86
L-index

#	Paper	IF	Citations
196	Relationship between Symmetries and Conservation Laws. <i>International Journal of Theoretical Physics</i> , 2000 , 39, 23-40	1.1	216
195	Noether-Type Symmetries and Conservation Laws Via Partial Lagrangians. <i>Nonlinear Dynamics</i> , 2006 , 45, 367-383	5	182
194	Conservation laws for cubic-quartic optical solitons in Kerr and power law media. <i>Optik</i> , 2017 , 145, 650-654	5	112
193	Optical solitons with complex Ginzburg-Landau equation. <i>Nonlinear Dynamics</i> , 2016 , 85, 1979-2016	5	110
192	A Basis of Conservation Laws for Partial Differential Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2002 , 9, 60	0.9	92
191	Lie-Bäcklund and Noether Symmetries with Applications. <i>Nonlinear Dynamics</i> , 1998 , 15, 115-136	5	91
190	Additional conservation laws for Rosenau-BLW equation with power law nonlinearity by Lie symmetry. <i>Nonlinear Dynamics</i> , 2015 , 79, 743-748	5	60
189	Couette flow of a third-grade fluid with variable magnetic field. <i>Mathematical and Computer Modelling</i> , 2006 , 43, 132-137		58
188	Symmetry analysis and conservation laws for the class of time-fractional nonlinear dispersive equation. <i>Nonlinear Dynamics</i> , 2015 , 82, 281-287	5	55
187	A (2+1)-dimensional sine-Gordon and sinh-Gordon equations with symmetries and kink wave solutions. <i>Nuclear Physics B</i> , 2020 , 953, 114956	2.8	53
186	Exact flow of a third-grade fluid on a porous wall. <i>International Journal of Non-Linear Mechanics</i> , 2003 , 38, 1533-1537	2.8	50
185	Generalization of the double reduction theory. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 3763-3769	4.3	43
184	A (2+1)-dimensional KdV equation and mKdV equation: Symmetries, group invariant solutions and conservation laws. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 728-731	2.3	43
183	Solitons and conservation laws in magneto-optic waveguides with triple-power law nonlinearity. <i>Journal of Optics (India)</i> , 2020 , 49, 584-590	1.3	41
182	Solitons and conservation laws of Klein-Gordon equation with power law and log law nonlinearities. <i>Nonlinear Dynamics</i> , 2013 , 73, 2191-2196	5	39
181	Approximate Symmetries and Conservation Laws with Applications. <i>International Journal of Theoretical Physics</i> , 1999 , 38, 2389-2399	1.1	39
180	Partial Noether operators and first integrals via partial Lagrangians. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 2079-2089	2.3	38

179	Group analysis, exact solutions and conservation laws of a generalized fifth order KdV equation. <i>Chaos, Solitons and Fractals</i> , 2016 , 86, 8-15	9.3	36
178	Soliton Solution and Conservation Law of Gear-Grimshaw Model for Shallow Water Waves. <i>Acta Physica Polonica A</i> , 2014 , 125, 1099-1107	0.6	35
177	Noether Symmetries Versus Killing Vectors and Isometries of Spacetimes. <i>International Journal of Theoretical Physics</i> , 2006 , 45, 1029-1039	1.1	34
176	Noether versus Killing symmetry of conformally flat Friedmann metric. <i>General Relativity and Gravitation</i> , 2007 , 39, 2053-2059	2.3	33
175	Nonlinear evolution-type equations and their exact solutions using inverse variational methods. <i>Journal of Physics A</i> , 2005 , 38, 4629-4636		32
174	Optical soliton perturbation, group invariants and conservation laws of perturbed Fokas-Enells equation. <i>Chaos, Solitons and Fractals</i> , 2018 , 114, 275-280	9.3	31
173	Symmetry reduction, exact group-invariant solutions and conservation laws of the Benjamin-Bona-Mahoney equation. <i>Applied Mathematics Letters</i> , 2013 , 26, 376-381	3.5	31
172	Approximate symmetries and conservation laws of the geodesic equations for the Schwarzschild metric. <i>Nonlinear Dynamics</i> , 2007 , 51, 183-188	5	31
171	Conservation laws for optical solitons in birefringent fibers and magneto-optic waveguides. <i>Optik</i> , 2016 , 127, 11662-11673	2.5	30
170	Double reduction of a nonlinear (2+1) wave equation via conservation laws. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 1244-1253	3.7	30
169	Optical soliton perturbation and conservation law with Kudryashov's refractive index having quadrupled power-law and dual form of generalized nonlocal nonlinearity. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2021 , 24, 64-70	0.4	30
168	Symmetry-invariant conservation laws of partial differential equations. <i>European Journal of Applied Mathematics</i> , 2018 , 29, 78-117	1	29
167	Conservation laws for optical solitons with Chen-Lee-Liu equation. <i>Optik</i> , 2018 , 174, 195-198	2.5	29
166	Solitons, Shock Waves, Conservation Laws and Bifurcation Analysis of Boussinesq Equation with Power Law Nonlinearity and Dual Dispersion. <i>Applied Mathematics and Information Sciences</i> , 2014 , 8, 949-957	2.4	28
165	Optical solitons and conservation laws with anti-cubic nonlinearity. <i>Optik</i> , 2016 , 127, 12056-12062	2.5	28
164	Lie and Noether Counting Theorems for One-Dimensional Systems. <i>Journal of Mathematical Analysis and Applications</i> , 1993 , 178, 116-129	1.1	27
163	Solitary waves and conservation laws of Bona-Chen equations. <i>Indian Journal of Physics</i> , 2013 , 87, 169-175		26
162	A Symmetry Invariance Analysis of the Multipliers & Conservation Laws of the Jaulent-Miodek and Some Families of Systems of KdV Type Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2009 , 16, 149	0.9	26

161	Group theoretic methods for approximate invariants and Lagrangians for some classes of $y'' + B(t)y' + y = f(y, y')$. <i>International Journal of Non-Linear Mechanics</i> , 2002 , 37, 275-280	2.8	26
160	Approximate Noether-type symmetries and conservation laws via partial Lagrangians for PDEs with a small parameter. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 223, 508-518	2.4	23
159	Optical dromions, domain walls and conservation laws with Kundu-Mukherjee-Naskar equation via traveling waves and Lie symmetry. <i>Results in Physics</i> , 2020 , 16, 102850	3.7	23
158	The unsteady flow of a fourth-grade fluid past a porous plate. <i>Mathematical and Computer Modelling</i> , 2005 , 41, 1347-1353		22
157	Optical solitons and conservation laws for driven nonlinear Schrödinger's equation with linear attenuation and detuning. <i>Optics and Laser Technology</i> , 2013 , 45, 402-405	4.2	21
156	A note on a symmetry analysis and exact solutions of a nonlinear fin equation. <i>Applied Mathematics Letters</i> , 2006 , 19, 1356-1360	3.5	21
155	Soliton solution and conservation laws of the Zakharov equation in plasmas with power law nonlinearity. <i>Nonlinear Analysis: Modelling and Control</i> , 2013 , 18, 153-159	1.3	21
154	Some new exact wave solutions and conservation laws of potential Korteweg-de Vries equation. <i>Nonlinear Dynamics</i> , 2017 , 89, 501-508	5	20
153	Optical solitons and conservation laws with polarization mode dispersion for coupled Fokas-Enells equation using group invariance. <i>Chaos, Solitons and Fractals</i> , 2019 , 120, 245-249	9.3	20
152	Nonlocal symmetry analysis, explicit solutions and conservation laws for the fourth-order Burgers equation. <i>Chaos, Solitons and Fractals</i> , 2015 , 81, 290-298	9.3	20
151	Conservation laws for optical solitons with spatio-temporal dispersion. <i>Journal of Electromagnetic Waves and Applications</i> , 2014 , 28, 242-252	1.3	19
150	Variational Formulation of Approximate Symmetries and Conservation Laws. <i>International Journal of Theoretical Physics</i> , 2001 , 40, 1501-1509	1.1	19
149	Soliton solutions and conservation laws of the Gilson-Pickering equation. <i>Waves in Random and Complex Media</i> , 2011 , 21, 378-385	1.9	18
148	Exact solutions using symmetry methods and conservation laws for the viscous flow through expanding/contracting channels. <i>Applied Mathematical Modelling</i> , 2008 , 32, 2936-2940	4.5	18
147	A variational analysis of a non-Newtonian flow in a rotating system. <i>International Journal of Computational Fluid Dynamics</i> , 2006 , 20, 157-162	1.2	18
146	A note on the solutions of the Emden-Fowler equation. <i>International Journal of Non-Linear Mechanics</i> , 1993 , 28, 379-384	2.8	18
145	Symmetries, conservation laws, reductions, and exact solutions for the Klein-Gordon equation in de Sitter spacetimes. <i>Canadian Journal of Physics</i> , 2012 , 90, 667-674	1.1	17
144	Equivalent lagrangians and the solution of some classes of non-linear equations. <i>International Journal of Non-Linear Mechanics</i> , 1992 , 27, 919-927	2.8	17

143	(2 + 1)-dimensional Boiti-Leon-Pempinelli equation □ Domain walls, invariance properties and conservation laws. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126255	2.3	17
142	Solitons and conservation laws in magneto-optic waveguides with generalized Kudryashov equation. <i>Chinese Journal of Physics</i> , 2021 , 69, 186-205	3.5	17
141	Solitons and conservation laws of coupled Ostrovsky equation for internal waves. <i>Applied Mathematics and Computation</i> , 2015 , 258, 95-99	2.7	16
140	A basis of approximate conservation laws for PDEs with a small parameter. <i>International Journal of Non-Linear Mechanics</i> , 2006 , 41, 830-837	2.8	16
139	A note on some perfect fluid Kantowski-Bachs and Bianchi type III spacetimes and their conformal vector fields in f(R) theory of gravity. <i>Modern Physics Letters A</i> , 2019 , 34, 1950079	1.3	15
138	Conservation laws, multipliers, adjoint equations and Lagrangians for Jaulent-Miodek and some families of systems of KdV type equations. <i>Nonlinear Dynamics</i> , 2015 , 81, 753-763	5	15
137	Conservation Laws for Highly Dispersive Optical Solitons in Birefringent Fibers. <i>Regular and Chaotic Dynamics</i> , 2020 , 25, 166-177	1.6	15
136	Travelling wave solutions to Stokes problem for a fourth grade fluid. <i>Applied Mathematical Modelling</i> , 2009 , 33, 1613-1619	4.5	15
135	Cubic-quartic optical solitons and conservation laws with Kudryashov's sextic power-law of refractive index. <i>Optik</i> , 2021 , 227, 166059	2.5	15
134	Cubic-quartic optical soliton perturbation and conservation laws with Kudryashov's law of refractive index. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126884	2.3	14
133	On the invariance and conservation laws of the Biswas-Arshed equation in fiber-optic transmissions. <i>Optik</i> , 2019 , 190, 50-53	2.5	13
132	A note on classification of teleparallel conformal symmetries in non-static plane symmetric space-times in the teleparallel theory of gravitation using diagonal tetrads. <i>International Journal of Geometric Methods in Modern Physics</i> , 2016 , 13, 1650046	1.5	13
131	Dark optical solitons and conservation laws for parabolic and dual-power law nonlinearities in (2 + 1)-dimensions. <i>Optik</i> , 2014 , 125, 2784-2792	2.5	13
130	On the solutions and conservation laws of the model for tumor growth in the brain. <i>Journal of Mathematical Analysis and Applications</i> , 2009 , 350, 256-261	1.1	13
129	On the computation of analytical solutions of an unsteady magnetohydrodynamics flow of a third grade fluid with Hall effects. <i>Computers and Mathematics With Applications</i> , 2011 , 61, 980-987	2.7	13
128	Optical solitons and conservation law in birefringent fibers with Kundu-Eckhaus equation by extended trial function method. <i>Optik</i> , 2019 , 179, 471-478	2.5	13
127	Conservation laws for highly dispersive optical solitons. <i>Optik</i> , 2019 , 199, 163283	2.5	12
126	An analysis of the Zhiber-Shabat equation including Lie point symmetries and conservation laws. <i>Collectanea Mathematica</i> , 2016 , 67, 55-62	0.9	12

125	Group Analysis, Fractional Explicit Solutions and Conservation Laws of Time Fractional Generalized Burgers Equation. <i>Communications in Theoretical Physics</i> , 2018 , 69, 5	2.4	12
124	Classification of Static Spherically Symmetric Spacetimes by Noether Symmetries. <i>International Journal of Theoretical Physics</i> , 2013 , 52, 3534-3542	1.1	12
123	1-Soliton solution and conservation laws for nonlinear wave equation in semiconductors. <i>Applied Mathematics and Computation</i> , 2010 , 217, 4289-4292	2.7	12
122	1-Soliton solution and conservation laws of the generalized Dullin-Gottwald-Holm equation. <i>Applied Mathematics and Computation</i> , 2010 , 217, 929-932	2.7	12
121	Symmetry classifications and reductions of some classes of (2+1)-nonlinear heat equation. <i>Journal of Mathematical Analysis and Applications</i> , 2008 , 339, 175-181	1.1	12
120	Conservation Laws for Regularized Long Wave Equation and R(m, n) Equation. <i>Advanced Science Letters</i> , 2011 , 4, 168-170	0.1	12
119	Domain walls to Boussinesq-type equations in (2 + 1)-dimensions. <i>Indian Journal of Physics</i> , 2014 , 88, 751-755	1.4	11
118	New higher-order conservation laws of some classes of wave and Gordon-type equations. <i>Nonlinear Dynamics</i> , 2012 , 67, 97-102	5	11
117	Proper projective symmetry in Bianchi type I space-times. <i>European Physical Journal Plus</i> , 2013 , 128, 1	3.1	11
116	SOLITONS AND CONSERVATION LAWS IN NEUROSCIENCES. <i>International Journal of Biomathematics</i> , 2013 , 06, 1350017	1.8	11
115	Wave equation on spherically symmetric Lorentzian metrics. <i>Journal of Mathematical Physics</i> , 2011 , 52, 063511	1.2	11
114	Exact solutions of thin film flows. <i>Nonlinear Dynamics</i> , 2007 , 50, 229-233	5	11
113	Conservation laws and associated symmetries for some classes of soil water motion equations. <i>International Journal of Non-Linear Mechanics</i> , 2001 , 36, 1041-1045	2.8	11
112	Cubic-quartic optical soliton perturbation and conservation laws with generalized Kudryashov form of refractive index. <i>Journal of Optics (India)</i> , 2021 , 50, 354-360	1.3	11
111	A the invariance and conservation laws of the Triki-Biswas equation describing monomode optical fibers. <i>Optik</i> , 2019 , 186, 300-302	2.5	10
110	1-Soliton solution and conservation laws for the Jaulent-Miodeke equation with power law nonlinearity. <i>Applied Mathematics and Computation</i> , 2010 , 217, 944-948	2.7	10
109	Nonclassical Potential Symmetry Generators of Differential Equations. <i>Nonlinear Dynamics</i> , 2002 , 30, 167-177	5	10
108	Noether Equivalence Problem for Particle Lagrangians. <i>Journal of Mathematical Analysis and Applications</i> , 1994 , 188, 867-884	1.1	10

107	A pen-picture of solitons and conservation laws in magneto-optic waveguides having quadratic-cubic law of nonlinear refractive index. <i>Optik</i> , 2020 , 223, 165330	2.5	10
106	Conservation laws for some systems of nonlinear PDEs via the symmetry/adjoint symmetry pair method. <i>Journal of Mathematical Analysis and Applications</i> , 2016 , 436, 94-103	1.1	9
105	On the invariances, conservation laws, and conserved quantities of the damped-driven nonlinear Schrödinger equation. <i>Canadian Journal of Physics</i> , 2012 , 90, 199-206	1.1	9
104	Symmetries, Conservation Laws and Multipliers via Partial Lagrangians and Noether's Theorem for Classically Non-Variational Problems. <i>International Journal of Theoretical Physics</i> , 2007 , 46, 3022-3029	1.1	9
103	Solitons and conservation laws in magneto-optic waveguides having parabolic-nonlocal law of refractive index. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126814	2.3	9
102	Propagation of nonlinear shock waves for the generalised Oskolkov equation and its dynamic motions in the presence of an external periodic perturbation 2018 , 90, 1		9
101	Classification of Variational Conservation Laws of General Plane Symmetric Spacetimes. <i>Communications in Theoretical Physics</i> , 2017 , 68, 335	2.4	8
100	Exact solutions of some general nonlinear wave equations in elasticity. <i>Nonlinear Dynamics</i> , 2007 , 48, 49-54	5	8
99	Investigation of Coriolis effect on oceanic flows and its bifurcation via geophysical Korteweg-de Vries equation. <i>Numerical Methods for Partial Differential Equations</i> , 2020 , 36, 1234-1253	2.5	8
98	Solitons and conservation laws in magneto-optic waveguides with generalized Kudryashov's equation by the unified auxiliary equation approach. <i>Optik</i> , 2021 , 245, 167694	2.5	8
97	A note on proper curvature symmetry in general cylindrically symmetric four-dimensional Lorentzian manifolds. <i>International Journal of Geometric Methods in Modern Physics</i> , 2018 , 15, 1850105	1.5	7
96	Nonlocal symmetry analysis and conservation laws to an third-order Burgers equation. <i>Nonlinear Dynamics</i> , 2016 , 83, 2281-2292	5	7
95	An Analysis of the Symmetries and Conservation Laws of the Class of Zakharov-Kuznetsov Equations. <i>Mathematical and Computational Applications</i> , 2010 , 15, 658-664	1	7
94	Conservation laws of a nonlinear wave equation. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 2237-2242	2.1	7
93	Embedded Solitons and Conservation Law with (A) and (B) Nonlinear Susceptibilities. <i>Acta Physica Polonica A</i> , 2017 , 131, 297-303	0.6	7
92	Group analysis, nonlinear self-adjointness, conservation laws, and soliton solutions for the mKdV systems. <i>Nonlinear Analysis: Modelling and Control</i> , 2017 , 22, 334-346	1.3	7
91	Soliton perturbation and conservation laws in magneto-optic waveguides with parabolic law nonlinearity. <i>Optik</i> , 2020 , 220, 165196	2.5	6
90	Double reductions/analysis of the Drinfeld-Sokolov-Wilson equation. <i>Applied Mathematics and Computation</i> , 2013 , 219, 6473-6483	2.7	6

89	On the Lie point symmetry analysis and solutions of the inviscid Burgers equation 2011 , 77, 407-414		6
88	Invariance Analysis and Variational Conservation Laws for the Wave Equation on Some Manifolds. <i>International Journal of Theoretical Physics</i> , 2009 , 48, 1919-1928	1.1	6
87	On the Symmetry Structures of the Minkowski Metric and a Weyl Re-Scaled Metric. <i>International Journal of Theoretical Physics</i> , 2007 , 46, 2795-2800	1.1	6
86	Classification of first-order Lagrangians on the line. <i>International Journal of Theoretical Physics</i> , 1995 , 34, 2267-2274	1.1	6
85	Classification of proper non-static cylindrically symmetric perfect fluid space-times via conformal vector fields in $F(R)$ gravity. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020 , 17, 2050147	1.5	5
84	Symmetry analysis and conservation laws of some third-order difference equations. <i>Journal of Difference Equations and Applications</i> , 2018 , 24, 1-14	1	5
83	Invariances and Conservation Laws Based on Some FRW Universes. <i>International Journal of Theoretical Physics</i> , 2014 , 53, 1483-1494	1.1	5
82	Exact Group Invariant Solutions and Conservation Laws of the Complex Modified Korteweg-Béard Vries Equation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013 , 68, 510-514	1.4	5
81	A symmetry analysis of some classes of evolutionary nonlinear (2+1)-diffusion equations with variable diffusivity. <i>Nonlinear Dynamics</i> , 2010 , 62, 127-138	5	5
80	Solitary wave solutions to some classes of nonlinear evolution type equations using inverse variational methods. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2007 , 67, 3194-3198	1.3	5
79	Potential Symmetries and Associated Conservation Laws with Application to Wave Equations. <i>Nonlinear Dynamics</i> , 2003 , 33, 369-377	5	5
78	Conservation laws of the Bretherton Equation. <i>Applied Mathematics and Information Sciences</i> , 2013 , 7, 877-879	2.4	5
77	Symmetry and conservation law structures of some anti-self-dual (ASD) manifolds 2016 , 87, 1		5
76	Symmetry structure of a wave equation on some classes of Bianchi cosmological models. <i>Indian Journal of Physics</i> , 2015 , 89, 411-416	1.4	4
75	Invariant analysis and conservation laws of time fractional Schrödinger equations. <i>Optik</i> , 2020 , 206, 1643565	2.5	4
74	Solitary waves and conservation laws of complex-valued Klein-Gordon equation in (Upphi)-4 field theory. <i>Indian Journal of Physics</i> , 2014 , 88, 311-315	1.4	4
73	The symmetries and conservation laws of some Gordon-type equations in Milne space-time 2013 , 80, 739-755		4
72	Similarity solutions and conservation laws for rotating flows of an Oldroyd-B fluid. <i>Indian Journal of Physics</i> , 2013 , 87, 1035-1040	1.4	4

71	Higher-order symmetries and conservation laws of multi-dimensional Gordon-type equations 2011 , 77, 447-460		4
70	On the Redefinition of the Variational and 'Partial' Variational Conservation Laws in a Class of Nonlinear PDEs with Mixed Derivatives. <i>Mathematical and Computational Applications</i> , 2010 , 15, 732-741 ¹		4
69	The Noether Conservation Laws of Some Vaidiya Metrics. <i>International Journal of Theoretical Physics</i> , 2010 , 49, 260-269	1.1	4
68	On approximate Lagrangians and invariants for scaling reductions of a non-linear wave equation with damping. <i>Applied Mathematics and Computation</i> , 2008 , 206, 16-20	2.7	4
67	Invariant solutions of certain nonlinear evolution type equations with small parameters. <i>Applied Mathematics and Computation</i> , 2006 , 182, 1075-1082	2.7	4
66	Symmetries and conservation laws of some asymptotically symmetric spacetimes of interest in gravitational waves. <i>International Journal of Geometric Methods in Modern Physics</i> , 2019 , 16, 1950152	1.5	4
65	Cubic-quartic optical soliton perturbation and conservation laws with Lakshmanan-Borsezian-Daniel model: Undetermined coefficients. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2150007	0.8	4
64	On the invariance and conservation laws of differential equations. <i>Transactions of the Royal Society of South Africa</i> , 2021 , 76, 89-95	1	4
63	Topological solitons, cnoidal waves and conservation laws of coupled wave equations. <i>Indian Journal of Physics</i> , 2013 , 87, 1233-1241	1.4	3
62	On symmetries, reductions, conservation laws and conserved quantities of optical solitons with inter-modal dispersion. <i>Optik</i> , 2013 , 124, 5116-5123	2.5	3
61	New conservation laws of some third-order systems of pdes arising from higher-order multipliers. <i>Applied Mathematics and Computation</i> , 2010 , 217, 2639-2643	2.7	3
60	Conservation Laws and Associated Noether Type Vector Fields via Partial Lagrangians and Noether's Theorem for the Liang Equation. <i>International Journal of Theoretical Physics</i> , 2008 , 47, 3075-3081 ¹	1.1	3
59	Potential symmetry generators and associated conservation laws of perturbed nonlinear equations. <i>Applied Mathematics and Computation</i> , 2004 , 156, 271-285	2.7	3
58	On the conserved quantities and associated symmetries for some classes of perturbed wave equations with non-linearities. <i>International Journal of Non-Linear Mechanics</i> , 2001 , 36, 125-130	2.8	3
57	Highly dispersive optical solitons in polarization-preserving fibers with Kerr law nonlinearity by Lie symmetry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 421, 127768	2.3	3
56	Optical solitons and conservation law with Kudryashov's form of arbitrary refractive index. <i>Journal of Optics (India)</i> , 1	1.3	3
55	Conservation Laws for Solitons in Magneto-optic Waveguides with Anti-cubic and Generalized Anti-cubic Nonlinearities. <i>Regular and Chaotic Dynamics</i> , 2021 , 26, 456-461	1.6	3
54	Symmetry reductions and conservation laws of the short pulse equation. <i>Optik</i> , 2016 , 127, 10201-10207	2.5	3

53	On a study of symmetries and conservation laws of a class of time fractional Schrödinger equations with nonlocal nonlinearities. <i>Optik</i> , 2020 , 224, 165619	2.5	2
52	Image Processing and Noise Removal Algorithms The Pdes and Their Invariance Properties & Conservation Laws. <i>Acta Applicandae Mathematicae</i> , 2018 , 153, 163-169	1.1	2
51	Symmetry structures and conservation laws of Petrov III and Papapetrou metrics. <i>Indian Journal of Physics</i> , 2013 , 87, 717-722	1.4	2
50	Reductions and new exact solutions of the density-dependent Nagumo and Fisher equations. <i>Journal of Engineering Mathematics</i> , 2013 , 82, 77-83	1.2	2
49	On double reduction of short pulse equation 2015 ,		2
48	A note on the interplay between symmetries, reduction and conservation laws of Stokes' first problem for third-grade rotating fluids 2011 , 77, 439-445		2
47	CONSERVATION LAWS OF SOME NON-VARIATIONAL PERTURBED PDE'S VIA A PARTIAL VARIATIONAL APPROACH. <i>International Journal of Modern Physics B</i> , 2010 , 24, 4253-4267	1.1	2
46	A Complete Symmetry Classification and Reduction of Some Classes of the Nonlinear (1-2) Wave Equation. <i>Quaestiones Mathematicae</i> , 2010 , 33, 75-94	0.6	2
45	An Analysis of the Invariance and Conservation Laws of Some Classes of Nonlinear Ostrovsky Equations and Related Systems. <i>Chinese Physics Letters</i> , 2011 , 28, 010201	1.8	2
44	Equivalent Lagrangians and the Inverse Variational Problem with Applications. <i>Quaestiones Mathematicae</i> , 2004 , 27, 207-216	0.6	2
43	The geometry and invariance properties for certain classes of metrics with neutral signature. <i>International Journal of Geometric Methods in Modern Physics</i> , 2016 , 13, 1650080	1.5	2
42	A Group Theory Approach towards Some Rational Difference Equations. <i>Journal of Mathematics</i> , 2019 , 2019, 1-9	1.2	2
41	Conservation laws for optical solitons with non-local nonlinearity. <i>Optik</i> , 2019 , 178, 846-849	2.5	2
40	Optical soliton perturbation and conservation law with Kudryashov's refractive index having quadrupled power-law and dual form of generalized nonlocal nonlinearity. <i>Optik</i> , 2021 , 240, 166966	2.5	2
39	Highly dispersive optical solitons and conservation laws in absence of self-phase modulation with new Kudryashov's approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 431, 128001	2.3	2
38	Cubic-Quartic Optical Solitons and Conservation Laws with Kudryashov's Law of Refractive Index by Extended Trial Function. <i>Computational Mathematics and Mathematical Physics</i> , 2021 , 61, 1995-2003	0.9	2
37	On the Symmetries and Conservation Laws of the Multidimensional Nonlinear Damped Wave Equations. <i>Advances in Mathematical Physics</i> , 2017 , 2017, 1-11	1.1	1
36	On the Reduction of Some Dispersionless Integrable Systems. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 371-376	1.1	1

35	Invariance, Conservation Laws, and Exact Solutions of the Nonlinear Cylindrical Fin Equation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014 , 69, 195-198	1.4	1
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