

Abdul Hamid Kara

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196
papers

3,025
citations

29
h-index

46
g-index

198
ext. papers

3,383
ext. citations

2.3
avg, IF

5.86
L-index

#	Paper	IF	Citations
196	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
195	Optimal system and classification of invariant solutions of nonlinear class of wave equations and their conservation laws. <i>Journal of Mathematical Analysis and Applications</i> , 2022 , 505, 125615	1.1	0
194	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
193	Shallow Water Waves and Conservation Laws with Dispersion Triplet. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3647	2.6	0
192	On Lie symmetry analysis of nonhomogeneous generalized inviscid and fractional Burgers' equation. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 8726-8738	2.3	
191	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
190	Solitons, travelling waves, invariance, conservation laws and approximate conservation of the extended Jimbo-Miwa equation. <i>Chaos, Solitons and Fractals</i> , 2021 , 144, 110636	9.3	0
189	On a study of some classes of the fourth-order KdV-Klein/Gordon equation and its time fractional forms. <i>Chaos, Solitons and Fractals</i> , 2021 , 148, 111028	9.3	1
188	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
187	The relativistic heat equation on flat Friedman spacetime. <i>Indian Journal of Physics</i> , 2021 , 95, 1009-1014	1.4	
186	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
185	Cubic-quartic optical soliton perturbation and conservation laws with generalized Kudryashov's form of refractive index. <i>Journal of Optics (India)</i> , 2021 , 50, 354-360	1.3	11
184	Solitons and conservation laws in magneto-optic waveguides with generalized Kudryashov's equation. <i>Chinese Journal of Physics</i> , 2021 , 69, 186-205	3.5	17
183	Highly dispersive optical solitons and conservation laws with Kudryashov's sextic power-law of nonlinear refractive index. <i>Optik</i> , 2021 , 240, 166915	2.5	1
182	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
181	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
180	Conservation laws for solitons in magneto-optic waveguides with dual-power law nonlinearity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 416, 127667	2.3	0

179	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
178	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
177	Painlevé properties, gauge invariance and solitons of some classes of reaction-diffusion equations. <i>Chaos, Solitons and Fractals</i> , 2021 , 153, 111589	9.3	
176	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
175	Soliton perturbation and conservation laws in magneto-optic waveguides with parabolic law nonlinearity. <i>Optik</i> , 2020 , 220, 165196	2.5	6
174	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
173	Invariant analysis and conservation laws of time fractional Schrödinger equations. <i>Optik</i> , 2020 , 206, 1643565	1.5	4
172	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
171	Conservation Laws for Highly Dispersive Optical Solitons in Birefringent Fibers. <i>Regular and Chaotic Dynamics</i> , 2020 , 25, 166-177	1.6	15
170	(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
169	Conservation laws of some classes of models involving oscillons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126229	2.3	1
168	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
167	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
166	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
165	Gauge symmetries and isometries in higher dimensions. <i>Modern Physics Letters A</i> , 2020 , 35, 2050310	1.3	
164	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
163	On the symmetry and conservation law classification of the de Sitter-Schwarzschild metric and the corresponding wave and Klein-Gordon equations. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020 , 17, 2050172	1.5	
162	Solitons and conservation laws in magneto-optic waveguides with polynomial law nonlinearity. <i>Optik</i> , 2020 , 223, 165397	2.5	0

161	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
160	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
159	On symmetries and conservation laws of some spacetimes in $f(R, T)$ gravity. <i>Modern Physics Letters A</i> , 2019 , 34, 1975003	1.3	
158	Conservation laws for highly dispersive optical solitons. <i>Optik</i> , 2019 , 199, 163283	2.5	12
157	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
156	On a Theory for Analysing Second-Order Systems of Ordinary Discrete Equations. <i>Journal of Mathematics</i> , 2019 , 2019, 1-14	1.2	
155	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
154	Approximate-conservation laws of some nonlinear Schrödinger equation involving a spatially extended system consisting of two coupled elements. <i>Optik</i> , 2019 , 184, 265-270	2.5	
153	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
152	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
151	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
150	A Group Theory Approach towards Some Rational Difference Equations. <i>Journal of Mathematics</i> , 2019 , 2019, 1-9	1.2	2
149	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
148	Conservation laws for optical solitons with non-local nonlinearity. <i>Optik</i> , 2019 , 178, 846-849	2.5	2
147	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
146	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
145	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
144	Symmetry-invariant conservation laws of partial differential equations. <i>European Journal of Applied Mathematics</i> , 2018 , 29, 78-117	1	29

143	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
142	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
141	Optical soliton perturbation, group invariants and conservation laws of perturbed Fokas-Lenells equation. <i>Chaos, Solitons and Fractals</i> , 2018 , 114, 275-280	9.3	31
140	Conservation laws for optical solitons with Chen-Lee-Liu equation. <i>Optik</i> , 2018 , 174, 195-198	2.5	29
139	On the Relationship between the Invariance and Conservation Laws of Differential Equations. <i>Journal of Mathematics</i> , 2018 , 2018, 1-5	1.2	1
138	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
137	An analysis of the fourth-order PDEs in patterns and bi-block polymers <i>Mathematical Methods in the Applied Sciences</i> , 2017 , 40, 5141-5146	2.3	
136	Some new exact wave solutions and conservation laws of potential Korteweg-de Vries equation. <i>Nonlinear Dynamics</i> , 2017 , 89, 501-508	5	20
135	Classification of Variational Conservation Laws of General Plane Symmetric Spacetimes. <i>Communications in Theoretical Physics</i> , 2017 , 68, 335	2.4	8
134	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
133	Wave equations on anti self dual (ASD) manifolds. <i>Indian Journal of Physics</i> , 2017 , 91, 1395-1404	1.4	
132	Conservation laws for cubic-quartic optical solitons in Kerr and power law media. <i>Optik</i> , 2017 , 145, 650-654	5	112
131	Classification of a modified de Sitter metric by variational symmetries and conservation laws. <i>International Journal of Geometric Methods in Modern Physics</i> , 2017 , 14, 1750182	1.5	
130	Embedded Solitons and Conservation Law with (\mathbb{Q}) and (\mathbb{B}) Nonlinear Susceptibilities. <i>Acta Physica Polonica A</i> , 2017 , 131, 297-303	0.6	7
129	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
128	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
127	Conservation laws for optical solitons in birefringent fibers and magneto-optic waveguides. <i>Optik</i> , 2016 , 127, 11662-11673	2.5	30
126	Invariance analysis and reduction of discrete Painlevé equations. <i>Journal of Difference Equations and Applications</i> , 2016 , 22, 1378-1388	1	

125	Nonlocal symmetry analysis and conservation laws to an third-order Burgers equation. <i>Nonlinear Dynamics</i> , 2016 , 83, 2281-2292	5	7
124	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
123	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
122	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
121	Optical solitons with complex Ginzburg-Landau equation. <i>Nonlinear Dynamics</i> , 2016 , 85, 1979-2016	5	110
120	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
119	Symmetry and conservation law structures of some anti-self-dual (ASD) manifolds 2016 , 87, 1		5
118	Optical solitons and conservation laws with anti-cubic nonlinearity. <i>Optik</i> , 2016 , 127, 12056-12062	2.5	28
117	Symmetry reductions and conservation laws of the short pulse equation. <i>Optik</i> , 2016 , 127, 10201-10207	2.5	3
116	Solitons and conservation laws of coupled Ostrovsky equation for internal waves. <i>Applied Mathematics and Computation</i> , 2015 , 258, 95-99	2.7	16
115	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
114	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
113	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
112	Additional conservation laws for Rosenau-dVBLW equation with power law nonlinearity by Lie symmetry. <i>Nonlinear Dynamics</i> , 2015 , 79, 743-748	5	60
111	On double reduction of short pulse equation 2015 ,		2
110	Symmetry Lie algebras and properties of linear ordinary differential equations with maximal dimension. <i>International Journal of Modern Physics Conference Series</i> , 2015 , 38, 1560074	0.7	
109	Symmetry analysis and conservation laws for the class of time-fractional nonlinear dispersive equation. <i>Nonlinear Dynamics</i> , 2015 , 82, 281-287	5	55
108	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

107	Invariances and Conservation Laws Based on Some FRW Universes. <i>International Journal of Theoretical Physics</i> , 2014 , 53, 1483-1494	1.1	5
106	Conservation laws for optical solitons with spatio-temporal dispersion. <i>Journal of Electromagnetic Waves and Applications</i> , 2014 , 28, 242-252	1.3	19
105	On the Reduction of Some Dispersionless Integrable Systems. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 371-376	1.1	1
104	Domain walls to Boussinesq-type equations in $(2 + 1)$ -dimensions. <i>Indian Journal of Physics</i> , 2014 , 88, 751-755	1.4	11
103	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
102	On PT Symmetry Systems: Invariance, Conservation Laws, and Reductions. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-7	1.1	
101	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
100	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
99	Symmetry and transformation properties of iterative ordinary differential equation. <i>Journal of Mathematical Analysis and Applications</i> , 2014 , 415, 135-147	1.1	1
98	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
97	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
96	Topological solitons, cnoidal waves and conservation laws of coupled wave equations. <i>Indian Journal of Physics</i> , 2013 , 87, 1233-1241	1.4	3
95	Symmetry structures and conservation laws of Petrov III and Papapetrou metrics. <i>Indian Journal of Physics</i> , 2013 , 87, 717-722	1.4	2
94	Solitary waves and conservation laws of Bona-Chen equations. <i>Indian Journal of Physics</i> , 2013 , 87, 169-175	1.4	26
93	The symmetries and conservation laws of some Gordon-type equations in Milne space-time 2013 , 80, 739-755		4
92	Double reductions/analysis of the Drinfeld-Sokolov-Wilson equation. <i>Applied Mathematics and Computation</i> , 2013 , 219, 6473-6483	2.7	6
91	Proper projective symmetry in Bianchi type I space-times. <i>European Physical Journal Plus</i> , 2013 , 128, 1	3.1	11
90	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

89	Classification of Static Spherically Symmetric Spacetimes by Noether Symmetries. <i>International Journal of Theoretical Physics</i> , 2013 , 52, 3534-3542	1.1	12
88	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
87	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
86	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
85	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
84	Exact Group Invariant Solutions and Conservation Laws of the Complex Modified Korteweg-de Vries Equation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013 , 68, 510-514	1.4	5
83	SOLITONS AND CONSERVATION LAWS IN NEUROSCIENCES. <i>International Journal of Biomathematics</i> , 2013 , 06, 1350017	1.8	11
82	Conservation laws of the Bretherton Equation. <i>Applied Mathematics and Information Sciences</i> , 2013 , 7, 877-879	2.4	5
81	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
80	New higher-order conservation laws of some classes of wave and Gordon-type equations. <i>Nonlinear Dynamics</i> , 2012 , 67, 97-102	5	11
79	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
78	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
77	Equivalent Lagrangians: Generalization, Transformation Maps, and Applications. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-19	1.1	1
76	On the Lie point symmetry analysis and solutions of the inviscid Burgers equation 2011 , 77, 407-414		6
75	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
74	Higher-order symmetries and conservation laws of multi-dimensional Gordon-type equations 2011 , 77, 447-460		4
73	Invariance analysis and conservation laws of the wave equation on Vaidya manifolds 2011 , 77, 555-570		
72	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

71	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
70	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
69	A non-variational approach to the construction of new higher-order conservation laws of the family of nonlinear equations $(u_t + 3uux) + (u_t x x + 2uxu_{xx} + uu_{xxx}) - u_{xxx} = 0$. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 4183-4188	3.7	
68	Wave equation on spherically symmetric Lorentzian metrics. <i>Journal of Mathematical Physics</i> , 2011 , 52, 063511	1.2	11
67	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
66	Conservation Laws for Regularized Long Wave Equation and R(m, n) Equation. <i>Advanced Science Letters</i> , 2011 , 4, 168-170	0.1	12
65	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
64	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
63	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
62	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
61	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
60	Conservation laws of a nonlinear wave equation. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 2237-2242	2.1	7
59	An analysis of the conservation laws for certain third-grade fluids. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 3236-3241	2.1	1
58	The Noether Conservation Laws of Some Vaidya Metrics. <i>International Journal of Theoretical Physics</i> , 2010 , 49, 260-269	1.1	4
57	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
56	Generalization of the double reduction theory. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 3763-3769 ⁴³		
55	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
54	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

53	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
52	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
51	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
50	Travelling wave solutions to Stokes problem for a fourth grade fluid. <i>Applied Mathematical Modelling</i> , 2009 , 33, 1613-1619	4.5	15
49	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
48	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
47	Symmetries and Differential Forms. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 36	0.9	0
46	On the Exact Solutions of the Nonlinear Wave and $(\omega)^4$ -Model Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 105	0.9	1
45	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	3
44	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
43	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
42	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
41	Travelling wave and similarity solutions to nonlinear evolution type equations through inverse variational and symmetry methods. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2008 , 69, 2223-2229	1.3	13
40	Partial Noether operators and first integrals via partial Lagrangians. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 2079-2089	2.3	38
39	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
38	Exact solutions of some general nonlinear wave equations in elasticity. <i>Nonlinear Dynamics</i> , 2007 , 48, 49-54	5	8
37	Exact solutions of thin film flows. <i>Nonlinear Dynamics</i> , 2007 , 50, 229-233	5	11
36	Approximate symmetries and conservation laws of the geodesic equations for the Schwarzschild metric. <i>Nonlinear Dynamics</i> , 2007 , 51, 183-188	5	31

35	Noether versus Killing symmetry of conformally flat Friedmann metric. <i>General Relativity and Gravitation</i> , 2007 , 39, 2053-2059	2.3	33
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