Fazal M Mahomed

List of Publications by Citations

Source: https://exaly.com/author-pdf/5743683/fazal-m-mahomed-publications-by-citations.pdf
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

214 papers	3,535 citations	31 h-index	49 g-index
219 ext. papers	3,768 ext. citations	2.1 avg, IF	5.54 L-index

#	Paper	IF	Citations
214	Relationship between Symmetries andConservation Laws. *International Journal of Theoretical Physics*, **2000**, 39, 23-40	1.1	216
213	Noether-Type Symmetries and Conservation Laws Via Partial Lagrangians. *Nonlinear Dynamics*, **2006**, 45, 367-383	5	182
212	Comparison of different approaches to conservation laws for some partial differential equations in fluid mechanics. *Applied Mathematics and Computation*, **2008**, 205, 212-230	2.7	131
211	Symmetry Lie algebras of nth order ordinary differential equations. *Journal of Mathematical Analysis and Applications*, **1990**, 151, 80-107	1.1	112
210	A Basis of Conservation Laws for Partial Differential Equations. *Journal of Nonlinear Mathematical Physics*, **2002**, 9, 60	0.9	92
209	Lie–Bäcklund and Noether Symmetries with Applications. *Nonlinear Dynamics*, **1998**, 15, 115-136	5	91
208	Noether symmetry approach in f(R)–tachyon model. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 702, 315-319	4.2	89
207	Peristaltic Flow of a Magnetohydrodynamic Johnson–Segalman Fluid. *Nonlinear Dynamics*, **2005**, 40, 375-385	5	81
206	Symmetry group classification of ordinary differential equations: Survey of some results. *Mathematical Methods in the Applied Sciences*, **2007**, 30, 1995-2012	2.3	76
205	Noether gauge symmetry approach in f(R) gravity. *Astrophysics and Space Science*, **2012**, 337, 373-377	1.6	64
204	The Connection Between Isometries and Symmetries of Geodesic Equations of the Underlying Spaces. *Nonlinear Dynamics*, **2006**, 45, 65-74	5	64
203	THE LINEAR SYMTRIES OF A NONLINEAR DIFFERENTIAL EQUATION. *Quaestiones Mathematicae*, **1985**, 8, 241-274	0.6	60
202	Lie algebras associated with scalar second-order ordinary differential equations. *Journal of Mathematical Physics*, **1989**, 30, 2770-2777	1.2	55
201	Linearization criteria for a system of second-order ordinary differential equations. *International Journal of Non-Linear Mechanics*, **2001**, 36, 671-677	2.8	52
200	THE LIE ALGEBRA sl(3, R) AND LINEARIZATION. *Quaestiones Mathematicae*, **1989**, 12, 121-139	0.6	46
199	Conservation laws and conserved quantities for laminar two-dimensional and radial jets. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 2641-2651	2.1	43
198	Generalization of the double reduction theory. *Nonlinear Analysis: Real World Applications*, **2010**, 11, 3763-3769	2.1	43

197	Lagrangian formulation of a generalized Lane-Emden equation and double reduction. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 152	0.9	43
196	Symmetries of nonlinear differential equations and linearisation. *Journal of Physics A*, **1987**, 20, 277-292		42
195	Symmetry Breaking for a System of Two Linear Second-Order Ordinary Differential Equations. *Nonlinear Dynamics*, **2000**, 22, 121-133	5	39
194	Approximate Symmetries and Conservation Laws with Applications. *International Journal of Theoretical Physics*, **1999**, 38, 2389-2399	1.1	39
193	Partial Noether operators and first integrals via partial Lagrangians. *Mathematical Methods in the Applied Sciences*, **2007**, 30, 2079-2089	2.3	38
192	Exact solutions for thin film flow of a third grade fluid down an inclined plane. *Chaos, Solitons and Fractals*, **2008**, 38, 1336-1341	9.3	37
191	Linearization criteria for a system of second-order quadratically semi-linear ordinary differential equations. *Nonlinear Dynamics*, **2007**, 48, 417-422	5	35
190	Singular invariant equation for the (1+1) Fokker□Planck equation. *Journal of Physics A*, **2001**, 34, 11033-11051		35
189	Effects of slip on the non-linear flows of a third grade fluid. *Nonlinear Analysis: Real World Applications*, **2010**, 11, 139-146	2.1	34
188	Approximate conditional symmetries and approximate solutions of the perturbed Fitzhugh□Nagumo equation. *Journal of Mathematical Physics*, **2005**, 46, 023503	1.2	34
187	Approximate conditional symmetries for partial differential equations. *Journal of Physics A*, **2000**, 33, 343-356		34
186	A partial Hamiltonian approach for current value Hamiltonian systems. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 3600-3610	3.7	33
185	Approximate symmetries and conservation laws of the geodesic equations for the Schwarzschild metric. *Nonlinear Dynamics*, **2007**, 51, 183-188	5	31
184	Non-local symmetries and conservation laws for one-dimensional gas dynamics equations. *Applied Mathematics and Computation*, **2004**, 150, 379-397	2.7	31
183	Double reduction of a nonlinear (2+1) wave equation via conservation laws. *Communications in Nonlinear Science and Numerical Simulation*, **2011**, 16, 1244-1253	3.7	30
182	Noether symmetries of y □□= f (x) y n with applications to non-static spherically symmetric perfect fluid solutions. *Classical and Quantum Gravity*, **1999**, 16, 3553-3566	3.3	30
181	Group invariant solutions for the unsteady MHD flow of a third grade fluid in a porous medium. *International Journal of Non-Linear Mechanics*, **2012**, 47, 792-798	2.8	29
180	Solution of generalized emden-fowler equations with two symmetries. *International Journal of Non-Linear Mechanics*, **1994**, 29, 529-538	2.8	27

179	Lie and Noether Counting Theorems for One-Dimensional Systems. *Journal of Mathematical Analysis and Applications*, **1993**, 178, 116-129	1.1	27
178	Complex Lie symmetries for scalar second-order ordinary differential equations. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 3335-3344	2.1	26
177	Peristaltic MHD Flow of Third Grade Fluid with an Endoscope and Variable Viscosity. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 91	0.9	26
176	Travelling Wave Solutions for the Unsteady Flow of a Third Grade Fluid Induced Due to Impulsive Motion of Flat Porous Plate Embedded in a Porous Medium. *Journal of Mechanics*, **2014**, 30, 527-535	1	25
175	Endoscope effects on MHD peristaltic flow of a power-law fluid. *Mathematical Problems in Engineering*, **2006**, 2006, 1-19	1.1	25
174	Exact solution of a thin film flow of an Oldroyd 6-constant fluid over a moving belt. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 133-139	3.7	24
173	Fundamental Solutions for Zero-Coupon Bond Pricing Models. *Nonlinear Dynamics*, **2004**, 36, 69-76	5	24
172	Non-linear diffusion of an axisymmetric thin liquid drop: group-invariant solution and conservation law. *International Journal of Non-Linear Mechanics*, **2001**, 36, 879-885	2.8	24
171	Closed-form solutions for the Lucas–Uzawa model of economic growth via the partial Hamiltonian approach. *Communications in Nonlinear Science and Numerical Simulation*, **2016**, 30, 299-306	3.7	23
170	Approximate Noether symmetries of the geodesic equations for the charged-Kerr spacetime and rescaling of energy. *General Relativity and Gravitation*, **2009**, 41, 2399-2414	2.3	23
169	Approximate Noether-type symmetries and conservation laws via partial Lagrangians for PDEs with a small parameter. *Journal of Computational and Applied Mathematics*, **2009**, 223, 508-518	2.4	23
168	Invariant Linearization Criteria for Systems of Cubically Nonlinear Second-Order Ordinary Differential Equations. *Journal of Nonlinear Mathematical Physics*, **2009**, 16, 283	0.9	22
167	Conservation laws for third-order variant Boussinesq system. *Applied Mathematics Letters*, **2010**, 23, 883-886	3.3	22
166	Closed orbits and their stable symmetries. *Journal of Mathematical Physics*, **1994**, 35, 6525-6535	1.2	22
165	Complete Invariant Characterization of Scalar Linear (1+1) Parabolic Equations. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 112	0.9	21
164	Approximate potential symmetries for partial differential equations. *Journal of Physics A*, **2000**, 33, 6601-6613		21
163	Symmetries of first-order stochastic ordinary differential equations revisited. *Mathematical Methods in the Applied Sciences*, **2007**, 30, 2013-2025	2.3	20
162	Canonical forms for systems of two second-order ordinary differential equations. *Journal of Physics A*, **2001**, 34, 2883-2911		20

161	Conservation laws via the partial Lagrangian and group invariant solutions for radial and two-dimensional free jets. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 3457-3465	2.1	19
160	Complex Lie Symmetries for Variational Problems. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 25	0.9	19
159	A Formal Approach for Handling Lie Point Symmetries of Scalar First-Order Ito Stochastic Ordinary Differential Equations. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 44	0.9	19
158	Note on an exact solution for the pipe flow of a third-grade fluid. *Acta Mechanica*, **2007**, 190, 233-236	2.1	19
157	Integration of stochastic ordinary differential equations from a symmetry standpoint. *Journal of Physics A*, **2001**, 34, 177-192		19
156	Solution of ordinary differential equations via nonlocal transformations. *Journal of Physics A*, **2001**, 34, 1141-1152		19
155	Maximal subalgebra associated with a first integral of a system possessing sl(3,R) algebra. *Journal of Mathematical Physics*, **1988**, 29, 1807-1813	1.2	19
154	Linearizability criteria for systems of two second-order differential equations by complex methods. *Nonlinear Dynamics*, **2011**, 66, 77-88	5	18
153	Rayleigh problem for a MHD Sisko fluid. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 3428-3434	2.1	18
152	A note on the solutions of the Emden-Fowler equation. *International Journal of Non-Linear Mechanics*, **1993**, 28, 379-384	2.8	18
151	Exact solutions for flows of an Oldroyd 8-constant fluid with nonlinear slip conditions. *Communications in Nonlinear Science and Numerical Simulation*, **2010**, 15, 322-330	3.7	17
150	Equivalent lagrangians and the solution of some classes of non-linear equations. *International Journal of Non-Linear Mechanics*, **1992**, 27, 919-927	2.8	17
149	A basis of approximate conservation laws for PDEs with a small parameter. *International Journal of Non-Linear Mechanics*, **2006**, 41, 830-837	2.8	16
148	Integration of Ordinary Differential Equations via Nonlocal Symmetries. *Nonlinear Dynamics*, **2002**, 30, 267-275	5	16
147	Dust static plane symmetric solutions and their conformal vector fields in f(R) theory of gravity. *Modern Physics Letters A*, **2018**, 33, 1850222	1.3	16
146	Symmetries and integrability of a fourth-order Euler–Bernoulli beam equation. *Journal of Mathematical Physics*, **2010**, 51, 053517	1.2	15
145	Analytic solutions for MHD flow in an annulus. *Communications in Nonlinear Science and Numerical Simulation*, **2010**, 15, 1224-1227	3.7	14
144	Contact symmetry algebras of scalar second-order ordinary differential equations. *Journal of Mathematical Physics*, **1991**, 32, 2051-2055	1.2	14

143	A partial Lagrangian method for dynamical systems. *Nonlinear Dynamics*, **2016**, 84, 1783-1794	5	13
142	A note on some solutions for the flow of a fourth grade fluid in a porous space. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 368-374	2.1	13
141	Group classification of the generalized Emden–Fowler-type equation. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 3387-3395	2.1	13
140	A unified compatibility method for exact solutions of non-linear flow models of Newtonian and non-Newtonian fluids. *International Journal of Non-Linear Mechanics*, **2016**, 78, 142-155	2.8	12
139	Reductions and solutions for the unsteady flow of a fourth grade fluid on a porous plate. *Applied Mathematics and Computation*, **2013**, 219, 9187-9195	2.7	12
138	Classification of Static Spherically Symmetric Spacetimes by Noether Symmetries. *International Journal of Theoretical Physics*, **2013**, 52, 3534-3542	1.1	12
137	Non-linear time-dependent flow models of third grade fluids: A conditional symmetry approach. *International Journal of Non-Linear Mechanics*, **2013**, 54, 55-65	2.8	12
136	On comparison of exact and series solutions for thin film flow of a third-grade fluid. *International Journal for Numerical Methods in Fluids*, **2009**, 61, 987-994	1.9	12
135	Approximate partial Noether operators and first integrals for coupled nonlinear oscillators. *Nonlinear Dynamics*, **2009**, 57, 303-311	5	12
134	Proposal for determining the energy content of gravitational waves by using approximate symmetries of differential equations. *Physical Review D*, **2009**, 79,	4.9	12
133	Reduction of Order for Systems of Ordinary Differential Equations. *Journal of Nonlinear Mathematical Physics*, **2004**, 11, 13	0.9	12
132	Contact Symmetry Algebras of Scalar Ordinary Differential Equations. *Nonlinear Dynamics*, **2002**, 28, 213-230	5	12
131	Algebraic linearization criteria for systems of ordinary differential equations. *Nonlinear Dynamics*, **2012**, 67, 2053-2062	5	11
130	Invariant boundary value problems for a fourth-order dynamic Euler-Bernoulli beam equation. *Journal of Mathematical Physics*, **2012**, 53, 043703	1.2	11
129	Symmetry Reduction and Numerical Solution of a Third-Order ODE from Thin Film Flow. *Mathematical and Computational Applications*, **2010**, 15, 709-719	1	11
128	Generalized Couette Flow of a Third-Grade Fluid with Slip: The Exact Solutions. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2010**, 65, 1071-1076	1.4	11
127	Symmetry Solutions of a Third-Order Ordinary Differential Equation which Arises from Prandtl Boundary Layer Equations. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 179	0.9	11
126	Basis of Joint Invariants for (1 + 1) Linear Hyperbolic Equations. *Journal of Nonlinear Mathematical Physics*, **2002**, 9, 49	0.9	11

125	Non-static shear-free spherically symmetric charged perfect fluid distributions: a symmetry approach. *Classical and Quantum Gravity*, **2000**, 17, 3063-3072	3.3	11
124	Reduction and Solutions for Magnetohydrodynamic Flow of a Sisko Fluid in a Porous Medium. *Journal of Porous Media*, **2009**, 12, 695-714	2.9	11
123	A generalized Fitzhugh Nagumo equation. *Nonlinear Analysis: Theory, Methods & Applications*, **2008**, 68, 1006-1015	1.3	10
122	On Solutions of Some Non-Linear Differential Equations Arising in Newtonian and Non-Newtonian Fluids. *Nonlinear Dynamics*, **2004**, 35, 229-248	5	10
121	Noether Equivalence Problem for Particle Lagrangians. *Journal of Mathematical Analysis and Applications*, **1994**, 188, 867-884	1.1	10
120	A note on proper projective symmetry in cylindrical symmetric non-static space-times. *European Physical Journal Plus*, **2014**, 129, 1	3.1	9
119	Two-dimensional systems that arise from the Noether classification of Lagrangians on the line. *Applied Mathematics and Computation*, **2011**, 217, 6959-6973	2.7	9
118	Conditional linearizability criteria for a system of third-order ordinary differential equations. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 3404-3412	2.1	9
117	Conditional Linearizability Criteria for Third Order Ordinary Differential Equations. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 124	0.9	9
116	Gliding motion of bacterium in a non-Newtonian slime. *Nonlinear Analysis: Real World Applications*, **2007**, 8, 853-864	2.1	9
115	Symmetries, Conservation Laws and Multipliers via Partial Lagrangians and Noether Theorem for Classically Non-Variational Problems. *International Journal of Theoretical Physics*, **2007**, 46, 3022-3029	1.1	9
114	Exact solutions for Couette and Poiseuille flows for fourth grade fluids. *Acta Mechanica*, **2007**, 188, 69-78	2.1	9
113	Noether, partial Noether operators and first integrals for a linear system. *Journal of Mathematical Analysis and Applications*, **2008**, 342, 70-82	1.1	9
112	Constructing a space from the geodesic equations. *Computer Physics Communications*, **2008**, 179, 438-442	4.2	9
111	Conservation laws for equations related to soil water equations. *Mathematical Problems in Engineering*, **2005**, 2005, 141-150	1.1	9
110	The existence of contact transformations for evolution-type equations. *Journal of Physics A*, **1999**, 32, 8721-8730		9
109	Conformal vector fields in proper non-static plane symmetric spacetimes in f(R) gravity. *International Journal of Geometric Methods in Modern Physics*, **2020**, 17, 2050077	1.5	8
108	The association of non-local symmetries with conservation laws: applications to the heat and Burgers equations. *Applied Mathematics and Computation*, **2005**, 168, 1098-1108	2.7	8

107	Hamiltonian systems with three degrees of freedom, singular-point analysis, and chaotic behavior. *Physical Review A*, **1986**, 33, 2131-2133	2.6	8
106	Characterization of Hamiltonian symmetries and their first integrals. *International Journal of Non-Linear Mechanics*, **2015**, 74, 84-91	2.8	7
105	Proper projective symmetry in LRS Bianchi type V spacetimes. *Modern Physics Letters A*, **2018**, 33, 1850073	1.3	7
104	On certain properties of linear iterative equations. *Open Mathematics*, **2014**, 12, 648-657	0.8	7
103	Solutions for the turbulent classical wake using Lie symmetry methods. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 23, 51-70	3.7	7
102	A note on the solutions of some nonlinear equations arising in third-grade fluid flows: an exact approach. *Scientific World Journal, The*, **2014**, 2014, 109128	2.2	7
101	Classification of ordinary differential equations by conditional linearizability and symmetry. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 573-584	3.7	7
100	Second-Order Systems of ODEs Admitting Three-Dimensional Lie Algebras and Integrability. *Journal of Applied Mathematics*, **2013**, 2013, 1-15	1.1	7
99	Closed-Form Solutions for a Nonlinear Partial Differential Equation Arising in the Study of a Fourth Grade Fluid Model. *Journal of Applied Mathematics*, **2012**, 2012, 1-16	1.1	7
98	Conditional Linearizability of Fourth-Order Semi-Linear Ordinary Differential Equations. *Journal of Nonlinear Mathematical Physics*, **2009**, 16, 165	0.9	7
97	Conservation laws of a nonlinear wave equation. *Nonlinear Analysis: Real World Applications*, **2010**, 11, 2237-2242	2.1	7
96	EFFECTS OF AN ENDOSCOPE AND AN ELECTRICALLY CONDUCTING THIRD GRADE FLUID ON PERISTALTIC MOTION. *International Journal of Modern Physics B*, **2008**, 22, 3997-4016	1.1	7
95	AXIAL COUETTE FLOW OF AN ELECTRICALLY CONDUCTING FLUID IN AN ANNULUS. *International Journal of Modern Physics B*, **2008**, 22, 2489-2500	1.1	7
94	Unsteady Solutions in a Third-Grade Fluid Filling the Porous Space. *Mathematical Problems in Engineering*, **2008**, 2008, 1-13	1.1	7
93	Conditional symmetries for ordinary differential equations and applications. *International Journal of Non-Linear Mechanics*, **2014**, 67, 95-105	2.8	6
92	Analytic approximate solutions for time-dependent flow and heat transfer of a Sisko fluid. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2014**, 24, 1005-1019	4.5	6
91	Fundamental flows with nonlinear slip conditions: exact solutions. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2010**, 61, 877-888	1.6	6
90	Conservation laws of a nonlinear wave equation. *Nonlinear Analysis: Real World Applications*, **2010**, 11, 2862-2870	2.1	6

89	Classification of first-order Lagrangians on the line. *International Journal of Theoretical Physics*, **1995**, 34, 2267-2274	1.1	6
88	A note on classification of static plane symmetric perfect fluid space-times via proper conformal vector fields in f(G) theory of gravity. *International Journal of Geometric Methods in Modern Physics*, **2020**, 17, 2050086	1.5	6
87	Symmetries of second-order systems of ODEs and integrability. *Nonlinear Dynamics*, **2013**, 74, 969-989	5	5
86	Group Theoretical Analysis and Invariant Solutions for Unsteady Flow of a Fourth-Grade Fluid over an Infinite Plate Undergoing Impulsive Motion in a Darcy Porous Medium. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2015**, 70, 483-497	1.4	5
85	Self-Similar Unsteady Flow of a Sisko Fluid in a Cylindrical Tube Undergoing Translation. *Mathematical Problems in Engineering*, **2015**, 2015, 1-14	1.1	5
84	A note on the Lie symmetries of complex partial differential equations and their split real systems **2011**, 77, 483-491		5
83	Soil water redistribution and extraction flow models: Conservation laws. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 2021-2025	2.1	5
82	Laplace-Type Semi-Invariants for a System of Two Linear Hyperbolic Equations by Complex Methods. *Mathematical Problems in Engineering*, **2011**, 2011, 1-15	1.1	5
81	Symmetry analysis for the nonlinear model of diffusion and reaction in porous catalysts. *Nonlinear Analysis: Real World Applications*, **2010**, 11, 3031-3036	2.1	5
80	First integrals for a general linear system of two second-order ODEs via a partial Lagrangian. *Journal of Physics A: Mathematical and Theoretical*, **2008**, 41, 355207	2	5
79	Application of Symmetries to Central Force Problems **2000**, 21, 307-315		5
78	Symmetry vector fields and similarity solutions of a nonlinear field equation describing the relaxation to a maxwell distribution. *International Journal of Theoretical Physics*, **1988**, 27, 717-723	1.1	5
77	Analytical solution in parametric form for the two-dimensional free jet of a power-law fluid. *International Journal of Non-Linear Mechanics*, **2016**, 85, 94-108	2.8	4
76	A note on the integrability of a remarkable static Euler–Bernoulli beam equation. *Journal of Engineering Mathematics*, **2013**, 82, 101-108	1.2	4
75	Invariant approach to optimal investment–consumption problem: the constant elasticity of variance (CEV) model. *Mathematical Methods in the Applied Sciences*, **2017**, 40, 1382-1395	2.3	4
74	Dynamic Euler-Bernoulli Beam Equation: Classification and Reductions. *Mathematical Problems in Engineering*, **2015**, 2015, 1-7	1.1	4
73	Approximate conservation laws of nonlinear perturbed heat and wave equations. *Nonlinear Analysis: Real World Applications*, **2012**, 13, 2823-2829	2.1	4
72	Group Classification of a Generalized Lane-Emden System. *Journal of Applied Mathematics*, **2013**, 2013, 1-12	1.1	4

71	Linearization of systems of four second-order ordinary differential equations **2011**, 77, 581-594		4
70	Effect of magnetic field on the flow of a fourth order fluid. *Nonlinear Analysis: Real World Applications*, **2009**, 10, 3413-3419	2.1	4
69	The Rayleigh Problem for a Third Grade Electrically Conducting Fluid in a Magnetic Field. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 77	0.9	4
68	Remark on classical Crane solution of viscous flow past a stretching plate. *Applied Mathematics Letters*, **2016**, 52, 205-211	3.5	3
67	A complex Noether approach for variational partial differential equations. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 27, 120-135	3.7	3
66	Invariant Solutions for the Unsteady Magnetohydrodynamics (MHD) Flow of a Fourth-Grade Fluid Induced Due to the Impulsive Motion of a Flat Porous Plate. *Brazilian Journal of Physics*, **2015**, 45, 120-131	1.2	3
65	Applications of Group Theoretical Methods to Non-Newtonian Fluid Flow Models: Survey of Results. *Mathematical Problems in Engineering*, **2017**, 2017, 1-43	1.1	3
64	Lie and Noether symmetries of systems of complex ordinary differential equations and their split systems **2014**, 83, 9-20		3
63	Higher dimensional systems of differential equations obtainable by iterative use of complex methods. *International Journal of Modern Physics Conference Series*, **2015**, 38, 1560077	0.7	3
62	A Partial Lagrangian Approach to Mathematical Models of Epidemiology. *Mathematical Problems in Engineering*, **2015**, 2015, 1-11	1.1	3
61	Prandtl's Boundary Layer Equation for Two-Dimensional Flow: Exact Solutions via the Simplest Equation Method. *Mathematical Problems in Engineering*, **2013**, 2013, 1-5	1.1	3
60	Invariant Approaches to Equations of Finance. *Mathematical and Computational Applications*, **2013**, 18, 244-250	1	3
59	Approximate First Integrals for a System of Two Coupled Van Der Pol Oscillators with Linear Diffusive Coupling. *Mathematical and Computational Applications*, **2010**, 15, 720-731	1	3
58	Partial Noether Operators and First Integrals for a System with two Degrees of Freedom. *Journal of Nonlinear Mathematical Physics*, **2008**, 15, 165	0.9	3
57	Conditional symmetries of nonlinear third-order ordinary differential equations. *Discrete and Continuous Dynamical Systems - Series S*, **2018**, 11, 655-666	2.8	3
56	Hypercomplex analysis and integration of systems of ordinary differential equations. *Mathematical Methods in the Applied Sciences*, **2016**, 39, 4139-4157	2.3	3
55	Noether Symmetry Analysis of the Dynamic Euler-Bernoulli Beam Equation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2016**, 71, 447-456	1.4	3
54	Analytical solution in parametric form for the two-dimensional liquid jet of a power-law fluid. *International Journal of Non-Linear Mechanics*, **2017**, 93, 53-64	2.8	2

53	Invariants of third-order ordinary differential equations y???=f(x,y,y?,y??) via point transformations. *Mathematical Methods in the Applied Sciences*, **2016**, 39, 1043-1059	2.3	2
52	Ibragimov-type invariants for a system of two linear parabolic equations. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 3140-3147	3.7	2
51	A Note on Four-Dimensional Symmetry Algebras and Fourth-Order Ordinary Differential Equations. *Journal of Applied Mathematics*, **2013**, 2013, 1-4	1.1	2
50	Shock Wave Solution for a Nonlinear Partial Differential Equation Arising in the Study of a Non-Newtonian Fourth Grade Fluid Model. *Mathematical Problems in Engineering*, **2013**, 2013, 1-5	1.1	2
49	Integration of Systems of ODEs via Nonlocal Symmetry-Like Operators. *Mathematical and Computational Applications*, **2010**, 15, 585-600	1	2
48	Approximate Partial Noether Operators of the Schwarzschild Spacetime. *Journal of Nonlinear Mathematical Physics*, **2010**, 17, 13	0.9	2
47	CONSERVATION LAWS OF SOME NON-VARIATIONAL PERTURBED PDE'S VIA A PARTIAL VARIATIONAL APPROACH. *International Journal of Modern Physics B*, **2010**, 24, 4253-4267	1.1	2
46	A group classification of the general second-order coupled diffusion system. *Journal of Physics A: Mathematical and Theoretical*, **2010**, 43, 415203	2	2
45	A Group Classification of a System of Partial Differential Equations Modeling Flow in Collapsible Tubes. *Journal of Nonlinear Mathematical Physics*, **2009**, 16, 179	0.9	2
44	First Integrals for Two Linearly Coupled Nonlinear Duffing Oscillators. *Mathematical Problems in Engineering*, **2011**, 2011, 1-14	1.1	2
43	A Generalization of the Abel–Horsyth Formulas Via Group Methods. *Nonlinear Dynamics*, **2000**, 23, 377-389	3	2
42	Noether symmetries and exact solutions of an Euler–Bernoulli beam model. *International Journal of Modern Physics B*, **2016**, 30, 1640011	1.1	2
41	Singular invariant structures for Lie algebras admitted by a system of second-order ODEs. *Applied Mathematics and Computation*, **2016**, 281, 137-147	2.7	1
40	Proper projective symmetry in the most general non-static spherically symmetric four-dimensional Lorentzian manifolds. *International Journal of Geometric Methods in Modern Physics*, **2016**, 13, 1650009	1.5	1
39	Lie point symmetries, partial Noether operators and first integrals of the Painlevé–Gambier equations. *Nonlinear Analysis: Theory, Methods & Applications*, **2012**, 75, 30-36	1.3	1
38	An alternative proof of Lie's linearization theorem using a new symmetry criterion. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 26, 45-51	3.7	1
37	Symmetry classification and joint invariants for the scalar linear (1+1) elliptic equation. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 25, 84-93	3.7	1
36	Fundamental Solution via Invariant Approach for a Brain Tumor Model and its Extensions. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2014**, 69, 725-732	1.4	1

35	Noether gauge symmetry approach in GaussBonnet dilatonic theory of gravity. *Canadian Journal of Physics*, **2012**, 90, 467-471	1.1	1
34	Symmetry classification of collapsible tube model incorporating tension. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 93-99	3.7	1
33	Cotton-type and joint invariants for linear elliptic systems. *Scientific World Journal, The*, **2013**, 2013, 540705	2.5	1
32	Magnetic Field and Endoscope Influences on Peristaltic Transport: An Exact Solution. *Mathematical and Computational Applications*, **2010**, 15, 638-657	1	1
31	Conservation Laws and Conserved Quantities for Laminar Radial Jets with Swirl. *Mathematical and Computational Applications*, **2010**, 15, 742-761	1	1
30	TRANSIENT HYDROMAGNETIC FLOW OF A VISCOUS FLUID. *International Journal of Modern Physics B*, **2011**, 25, 2533-2542	1.1	1
29	Symmetries of th-Order Approximate Stochastic Ordinary Differential Equations. *Journal of Applied Mathematics*, **2012**, 2012, 1-15	1.1	1
28	AN EXTENSION OF THE DIRECT METHOD VIA AN APPLICATION. *Quaestiones Mathematicae*, **2001**, 24, 111-122	0.6	1
27	CANONICAL FORMS FOR PARTICLE LAGRANGIANS OF THE LINEAR SECOND-ORDER EQUATION. *Quaestiones Mathematicae*, **1994**, 17, 469-477	0.6	1
26	A point symmetry based method for transforming ODEs with three-dimensional symmetry algebras to their canonical forms. *Applied Mathematics and Computation*, **2016**, 289, 444-463	2.7	1
25	Invariant characterization of scalar third-order ODEs that admit the maximal point symmetry Lie algebra. *Mathematical Methods in the Applied Sciences*, **2018**, 41, 4714-4723	2.3	1
24	Invariant characterization of third-order ordinary differential equations u??=f(x,u,u?,u?) with five-dimensional point symmetry group. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 67, 627-636	3.7	0
23	Equality of the algebraic and geometric ranks of Cartan subalgebras and applications to linearization of a system of ordinary differential equations. *International Journal of Mathematics*, **2017**, 28, 1750080	0.5	0
22	Integrability of systems of ordinary differential equations via Lie point symmetries. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 9373-9392	2.3	0
21	Hamiltonian symmetry classification, integrals, and exact solutions of a generalized Ermakov system. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 4467-4478	2.3	0
20	Optimal system and classification of invariant solutions of nonlinear class of wave equations and their conservation laws. *Journal of Mathematical Analysis and Applications*, **2022**, 505, 125615	1.1	0
19	Analytical solution for time-dependent flow of a third grade fluid induced due to impulsive motion of a flat porous plate. *Acta Mathematicae Applicatae Sinica*, **2015**, 31, 757-766	0.3	
18	Unsteady magnetohydrodynamic flow of a fourth grade fluid caused by an impulsively moving plate in a Darcy porous medium ? A group-theoretical analysis. *International Journal of Modern Physics B*, **2016**, 30, 1640007	1.1	

17	Invariant linearization criteria for a three-dimensional dynamical system of second-order ordinary differential equations and applications. *International Journal of Non-Linear Mechanics*, **2016**, 78, 9-16	2.8
16	Recent Advances on Methods and Applications of Nonlinear Differential Equations. *Mathematical Problems in Engineering*, **2014**, 2014, 1-1	1.1
15	Shock Wave Solutions for Some Nonlinear Flow Models Arising in the Study of a Non-Newtonian Third Grade Fluid. *Mathematical Problems in Engineering*, **2013**, 2013, 1-6	1.1
14	Symmetries, Differential Equations, and Applications: Galois Bicentenary. *Journal of Applied Mathematics*, **2013**, 2013, 1-1	1.1
13	Lie Infinitesimal Conserved Quantities for Itô Stochastic ODEs. *Mathematical and Computational Applications*, **2010**, 15, 601-612	1
12	Lie and Riccati Linearization of a Class of Liñard Type Equations. *Journal of Applied Mathematics*, **2012**, 2012, 1-8	1.1
11	On solution of non-linear differential equation arising in gliding motion of bacteria. *Applied Mathematics and Computation*, **2004**, 148, 743-752	2.7
10	Static perfect fluid cylinders - a new approach to Kramer's equations. *Journal of Physics A*, **2000**, 33, 6817-6823	
9	Classification of singular differential invariants in ()-dimensional space and integrability. *Science Progress*, **2021**, 104, 368504211054258	1.1
8	Complex Methods for Lie Symmetry Analysis. *Nonlinear Physical Science*, **2021**, 125-151	0.1
7	Characterization of partial Hamiltonian operators and related first integrals. *Discrete and Continuous Dynamical Systems - Series S*, **2018**, 11, 723-734	2.8
6	Approximate Hamiltonian symmetries and related first integrals. *International Journal of Non-Linear Mechanics*, **2020**, 125, 103547	2.8
5	A Note on the Integration of Scalar Fourth-Order Ordinary Differential Equations with Four-Dimensional Symmetry Algebras. *Mathematical Problems in Engineering*, **2021**, 2021, 1-7	1.1
4	First Integrals of Two-Dimensional Dynamical Systems via Complex Lagrangian Approach. *Symmetry* , **2019**, 11, 1244	2.7
3	A Note on the Multiplier Approach for Derivation of Conservation Laws for Partial Differential Equations in the Complex Domain. *Springer Proceedings in Mathematics and Statistics*, **2018**, 125-136	0.2
2	Linearization of third-order ordinary differential equations via point transformations. *Mathematical Methods in the Applied Sciences*, **2018**, 41, 6955-6967	2.3
1	Closed-form solutions via the invariant approach for one-factor commodity models. *Quaestiones Mathematicae*,1-14	0.6