

Fazal M Mahomed

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.

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	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
213	Classification of singular differential invariants in (n) -dimensional space and integrability. <i>Science Progress</i> , 2021 , 104, 368504211054258	1.1	
212	Complex Methods for Lie Symmetry Analysis. <i>Nonlinear Physical Science</i> , 2021 , 125-151	0.1	
211	A Note on the Integration of Scalar Fourth-Order Ordinary Differential Equations with Four-Dimensional Symmetry Algebras. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-7	1.1	
210	Integrability of systems of ordinary differential equations via Lie point symmetries. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 9373-9392	2.3	0
209	Hamiltonian symmetry classification, integrals, and exact solutions of a generalized Ermakov system. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 4467-4478	2.3	0
208	Conformal vector fields in proper non-static plane symmetric spacetimes in $f(R)$ gravity. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020 , 17, 2050077	1.5	8
207	A note on classification of static plane symmetric perfect fluid space-times via proper conformal vector fields in $f(G)$ theory of gravity. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020 , 17, 2050086	1.5	6
206	Approximate Hamiltonian symmetries and related first integrals. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 125, 103547	2.8	
205	Invariant characterization of third-order ordinary differential equations $u''' = f(x, u, u', u'')$ with five-dimensional point symmetry group. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 67, 627-636	3.7	0
204	First Integrals of Two-Dimensional Dynamical Systems via Complex Lagrangian Approach. <i>Symmetry</i> , 2019 , 11, 1244	2.7	
203	Proper projective symmetry in LRS Bianchi type V spacetimes. <i>Modern Physics Letters A</i> , 2018 , 33, 1850073	1.3	7
202	Conditional symmetries of nonlinear third-order ordinary differential equations. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2018 , 11, 655-666	2.8	3
201	Characterization of partial Hamiltonian operators and related first integrals. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2018 , 11, 723-734	2.8	
200	Dust static plane symmetric solutions and their conformal vector fields in $f(R)$ theory of gravity. <i>Modern Physics Letters A</i> , 2018 , 33, 1850222	1.3	16
199	A Note on the Multiplier Approach for Derivation of Conservation Laws for Partial Differential Equations in the Complex Domain. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 125-136	0.2	
198	Linearization of third-order ordinary differential equations via point transformations. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 6955-6967	2.3	

197	Invariant characterization of scalar third-order ODEs that admit the maximal point symmetry Lie algebra. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 4714-4723	2.3	1
196	Analytical solution in parametric form for the two-dimensional liquid jet of a power-law fluid. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 93, 53-64	2.8	2
195	Applications of Group Theoretical Methods to Non-Newtonian Fluid Flow Models: Survey of Results. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-43	1.1	3
194	Equality of the algebraic and geometric ranks of Cartan subalgebras and applications to linearization of a system of ordinary differential equations. <i>International Journal of Mathematics</i> , 2017 , 28, 1750080	0.5	0
193	Invariant approach to optimal investment-consumption problem: the constant elasticity of variance (CEV) model. <i>Mathematical Methods in the Applied Sciences</i> , 2017 , 40, 1382-1395	2.3	4
192	Remark on classical Crane's solution of viscous flow past a stretching plate. <i>Applied Mathematics Letters</i> , 2016 , 52, 205-211	3.5	3
191	Closed-form solutions for the Lucas-Lizawa model of economic growth via the partial Hamiltonian approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 30, 299-306	3.7	23
190	Unsteady magnetohydrodynamic flow of a fourth grade fluid caused by an impulsively moving plate in a Darcy porous medium ? A group-theoretical analysis. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1640007	1.1	
189	Analytical solution in parametric form for the two-dimensional free jet of a power-law fluid. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 85, 94-108	2.8	4
188	Invariants of third-order ordinary differential equations $y'''=f(x,y,y',y'')$ via point transformations. <i>Mathematical Methods in the Applied Sciences</i> , 2016 , 39, 1043-1059	2.3	2
187	A unified compatibility method for exact solutions of non-linear flow models of Newtonian and non-Newtonian fluids. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 78, 142-155	2.8	12
186	Singular invariant structures for Lie algebras admitted by a system of second-order ODEs. <i>Applied Mathematics and Computation</i> , 2016 , 281, 137-147	2.7	1
185	A partial Lagrangian method for dynamical systems. <i>Nonlinear Dynamics</i> , 2016 , 84, 1783-1794	5	13
184	Proper projective symmetry in the most general non-static spherically symmetric four-dimensional Lorentzian manifolds. <i>International Journal of Geometric Methods in Modern Physics</i> , 2016 , 13, 1650009	1.5	1
183	Invariant linearization criteria for a three-dimensional dynamical system of second-order ordinary differential equations and applications. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 78, 9-16	2.8	
182	Hypercomplex analysis and integration of systems of ordinary differential equations. <i>Mathematical Methods in the Applied Sciences</i> , 2016 , 39, 4139-4157	2.3	3
181	Noether Symmetry Analysis of the Dynamic Euler-Bernoulli Beam Equation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016 , 71, 447-456	1.4	3
180	A point symmetry based method for transforming ODEs with three-dimensional symmetry algebras to their canonical forms. <i>Applied Mathematics and Computation</i> , 2016 , 289, 444-463	2.7	1

179	Noether symmetries and exact solutions of an Euler-Bernoulli beam model. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1640011	1.1	2
178	A complex Noether approach for variational partial differential equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 27, 120-135	3.7	3
177	Characterization of Hamiltonian symmetries and their first integrals. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 74, 84-91	2.8	7
176	Analytical solution for time-dependent flow of a third grade fluid induced due to impulsive motion of a flat porous plate. <i>Acta Mathematicae Applicatae Sinica</i> , 2015 , 31, 757-766	0.3	
175	Invariant Solutions for the Unsteady Magnetohydrodynamics (MHD) Flow of a Fourth-Grade Fluid Induced Due to the Impulsive Motion of a Flat Porous Plate. <i>Brazilian Journal of Physics</i> , 2015 , 45, 120-131 ¹²	1.2	3
174	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. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015 , 70, 483-497	1.4	5
173	Higher dimensional systems of differential equations obtainable by iterative use of complex methods. <i>International Journal of Modern Physics Conference Series</i> , 2015 , 38, 1560077	0.7	3
172	Dynamic Euler-Bernoulli Beam Equation: Classification and Reductions. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-7	1.1	4
171	A Partial Lagrangian Approach to Mathematical Models of Epidemiology. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1	3
170	Self-Similar Unsteady Flow of a Sisko Fluid in a Cylindrical Tube Undergoing Translation. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-14	1.1	5
169	Solutions for the turbulent classical wake using Lie symmetry methods. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 23, 51-70	3.7	7
168	An alternative proof of Lie's linearization theorem using a new symmetry criterion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 26, 45-51	3.7	1
167	Symmetry classification and joint invariants for the scalar linear (1+1) elliptic equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 25, 84-93	3.7	1
166	On certain properties of linear iterative equations. <i>Open Mathematics</i> , 2014 , 12, 648-657	0.8	7
165	Conditional symmetries for ordinary differential equations and applications. <i>International Journal of Non-Linear Mechanics</i> , 2014 , 67, 95-105	2.8	6
164	Lie and Noether symmetries of systems of complex ordinary differential equations and their split systems 2014 , 83, 9-20		3
163	A note on proper projective symmetry in cylindrical symmetric non-static space-times. <i>European Physical Journal Plus</i> , 2014 , 129, 1	3.1	9
162	Analytic approximate solutions for time-dependent flow and heat transfer of a Sisko fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014 , 24, 1005-1019	4.5	6

161	A partial Hamiltonian approach for current value Hamiltonian systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 3600-3610	3.7	33
160	A note on the solutions of some nonlinear equations arising in third-grade fluid flows: an exact approach. <i>Scientific World Journal, The</i> , 2014 , 2014, 109128	2.2	7
159	Recent Advances on Methods and Applications of Nonlinear Differential Equations. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-1	1.1	
158	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. <i>Journal of Mechanics</i> , 2014 , 30, 527-535	1	25
157	Fundamental Solution via Invariant Approach for a Brain Tumor Model and its Extensions. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014 , 69, 725-732	1.4	1
156	Reductions and solutions for the unsteady flow of a fourth grade fluid on a porous plate. <i>Applied Mathematics and Computation</i> , 2013 , 219, 9187-9195	2.7	12
155	A note on the integrability of a remarkable static Euler-Bernoulli beam equation. <i>Journal of Engineering Mathematics</i> , 2013 , 82, 101-108	1.2	4
154	Classification of Static Spherically Symmetric Spacetimes by Noether Symmetries. <i>International Journal of Theoretical Physics</i> , 2013 , 52, 3534-3542	1.1	12
153	Symmetries of second-order systems of ODEs and integrability. <i>Nonlinear Dynamics</i> , 2013 , 74, 969-989	5	5
152	Non-linear time-dependent flow models of third grade fluids: A conditional symmetry approach. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 54, 55-65	2.8	12
151	A Note on Four-Dimensional Symmetry Algebras and Fourth-Order Ordinary Differential Equations. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-4	1.1	2
150	Shock Wave Solutions for Some Nonlinear Flow Models Arising in the Study of a Non-Newtonian Third Grade Fluid. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-6	1.1	
149	Second-Order Systems of ODEs Admitting Three-Dimensional Lie Algebras and Integrability. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-15	1.1	7
148	Symmetries, Differential Equations, and Applications: Galois Bicentenary. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-1	1.1	
147	Group Classification of a Generalized Lane-Emden System. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-12	1.1	4
146	Prandtl's Boundary Layer Equation for Two-Dimensional Flow: Exact Solutions via the Simplest Equation Method. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-5	1.1	3
145	Shock Wave Solution for a Nonlinear Partial Differential Equation Arising in the Study of a Non-Newtonian Fourth Grade Fluid Model. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-5	1.1	2
144	Invariant Approaches to Equations of Finance. <i>Mathematical and Computational Applications</i> , 2013 , 18, 244-250	1	3

143	Cotton-type and joint invariants for linear elliptic systems. <i>Scientific World Journal, The</i> , 2013 , 2013, 5407-5408	2.5	1
142	Group invariant solutions for the unsteady MHD flow of a third grade fluid in a porous medium. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 792-798	2.8	29
141	Lie point symmetries, partial Noether operators and first integrals of the Painlevé-Gambier equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2012 , 75, 30-36	1.3	1
140	Algebraic linearization criteria for systems of ordinary differential equations. <i>Nonlinear Dynamics</i> , 2012 , 67, 2053-2062	5	11
139	Noether gauge symmetry approach in f(R) gravity. <i>Astrophysics and Space Science</i> , 2012 , 337, 373-377	1.6	64
138	Noether gauge symmetry approach in Gauss-Bonnet dilatonic theory of gravity. <i>Canadian Journal of Physics</i> , 2012 , 90, 467-471	1.1	1
137	Approximate conservation laws of nonlinear perturbed heat and wave equations. <i>Nonlinear Analysis: Real World Applications</i> , 2012 , 13, 2823-2829	2.1	4
136	Symmetry classification of collapsible tube model incorporating tension. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 93-99	3.7	1
135	Invariant boundary value problems for a fourth-order dynamic Euler-Bernoulli beam equation. <i>Journal of Mathematical Physics</i> , 2012 , 53, 043703	1.2	11
134	Classification of ordinary differential equations by conditional linearizability and symmetry. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 573-584	3.7	7
133	Ibragimov-type invariants for a system of two linear parabolic equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 3140-3147	3.7	2
132	Closed-Form Solutions for a Nonlinear Partial Differential Equation Arising in the Study of a Fourth Grade Fluid Model. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-16	1.1	7
131	Symmetries of th-Order Approximate Stochastic Ordinary Differential Equations. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-15	1.1	1
130	Lie and Riccati Linearization of a Class of Lihard Type Equations. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-8	1.1	
129	Noether symmetry approach in f(R)Echyon model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 702, 315-319	4.2	89
128	Linearizability criteria for systems of two second-order differential equations by complex methods. <i>Nonlinear Dynamics</i> , 2011 , 66, 77-88	5	18
127	Two-dimensional systems that arise from the Noether classification of Lagrangians on the line. <i>Applied Mathematics and Computation</i> , 2011 , 217, 6959-6973	2.7	9
126	A note on the Lie symmetries of complex partial differential equations and their split real systems	5	

125	Linearization of systems of four second-order ordinary differential equations 2011 , 77, 581-594		4
124	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
123	TRANSIENT HYDROMAGNETIC FLOW OF A VISCOUS FLUID. <i>International Journal of Modern Physics B</i> , 2011 , 25, 2533-2542	1.1	1
122	First Integrals for Two Linearly Coupled Nonlinear Duffing Oscillators. <i>Mathematical Problems in Engineering</i> , 2011 , 2011, 1-14	1.1	2
121	Laplace-Type Semi-Invariants for a System of Two Linear Hyperbolic Equations by Complex Methods. <i>Mathematical Problems in Engineering</i> , 2011 , 2011, 1-15	1.1	5
120	Magnetic Field and Endoscope Influences on Peristaltic Transport: An Exact Solution. <i>Mathematical and Computational Applications</i> , 2010 , 15, 638-657	1	1
119	Integration of Systems of ODEs via Nonlocal Symmetry-Like Operators. <i>Mathematical and Computational Applications</i> , 2010 , 15, 585-600	1	2
118	Lie Infinitesimal Conserved Quantities for Itô Stochastic ODEs. <i>Mathematical and Computational Applications</i> , 2010 , 15, 601-612	1	
117	Symmetry Reduction and Numerical Solution of a Third-Order ODE from Thin Film Flow. <i>Mathematical and Computational Applications</i> , 2010 , 15, 709-719	1	11
116	Approximate First Integrals for a System of Two Coupled Van Der Pol Oscillators with Linear Diffusive Coupling. <i>Mathematical and Computational Applications</i> , 2010 , 15, 720-731	1	3
115	Conservation Laws and Conserved Quantities for Laminar Radial Jets with Swirl. <i>Mathematical and Computational Applications</i> , 2010 , 15, 742-761	1	1
114	Symmetries and integrability of a fourth-order EulerBernoulli beam equation. <i>Journal of Mathematical Physics</i> , 2010 , 51, 053517	1.2	15
113	Approximate Partial Noether Operators of the Schwarzschild Spacetime. <i>Journal of Nonlinear Mathematical Physics</i> , 2010 , 17, 13	0.9	2
112	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
111	Generalized Couette Flow of a Third-Grade Fluid with Slip: The Exact Solutions. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2010 , 65, 1071-1076	1.4	11
110	A group classification of the general second-order coupled diffusion system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 415203	2	2
109	Fundamental flows with nonlinear slip conditions: exact solutions. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2010 , 61, 877-888	1.6	6
108	Conservation laws of a nonlinear wave equation. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 2237-2242	2.1	7

107	Effects of slip on the non-linear flows of a third grade fluid. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 139-146	2.1	34
106	Conservation laws of a nonlinear wave equation. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 2862-2870	2.1	6
105	Symmetry analysis for the nonlinear model of diffusion and reaction in porous catalysts. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 3031-3036	2.1	5
104	Generalization of the double reduction theory. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 3763-3769	2.1	43
103	Conservation laws for third-order variant Boussinesq system. <i>Applied Mathematics Letters</i> , 2010 , 23, 883-886	3.9	22
102	Exact solutions for flows of an Oldroyd 8-constant fluid with nonlinear slip conditions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 322-330	3.7	17
101	Analytic solutions for MHD flow in an annulus. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1224-1227	3.7	14
100	A Group Classification of a System of Partial Differential Equations Modeling Flow in Collapsible Tubes. <i>Journal of Nonlinear Mathematical Physics</i> , 2009 , 16, 179	0.9	2
99	On comparison of exact and series solutions for thin film flow of a third-grade fluid. <i>International Journal for Numerical Methods in Fluids</i> , 2009 , 61, 987-994	1.9	12
98	Conservation laws and conserved quantities for laminar two-dimensional and radial jets. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 2641-2651	2.1	43
97	Rayleigh problem for a MHD Sisko fluid. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 3428-3434	2.1	18
96	Approximate partial Noether operators and first integrals for coupled nonlinear oscillators. <i>Nonlinear Dynamics</i> , 2009 , 57, 303-311	5	12
95	Approximate Noether symmetries of the geodesic equations for the charged-Kerr spacetime and rescaling of energy. <i>General Relativity and Gravitation</i> , 2009 , 41, 2399-2414	2.3	23
94	A note on some solutions for the flow of a fourth grade fluid in a porous space. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 368-374	2.1	13
93	Soil water redistribution and extraction flow models: Conservation laws. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 2021-2025	2.1	5
92	Complex Lie symmetries for scalar second-order ordinary differential equations. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 3335-3344	2.1	26
91	Group classification of the generalized Emden-Bowler-type equation. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 3387-3395	2.1	13
90	Conservation laws via the partial Lagrangian and group invariant solutions for radial and two-dimensional free jets. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 3457-3465	2.1	19

89	Effect of magnetic field on the flow of a fourth order fluid. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 3413-3419	2.1	4
88	Conditional linearizability criteria for a system of third-order ordinary differential equations. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 3404-3412	2.1	9
87	Exact solution of a thin film flow of an Oldroyd 6-constant fluid over a moving belt. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 133-139	3.7	24
86	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
85	Invariant Linearization Criteria for Systems of Cubically Nonlinear Second-Order Ordinary Differential Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2009 , 16, 283	0.9	22
84	Proposal for determining the energy content of gravitational waves by using approximate symmetries of differential equations. <i>Physical Review D</i> , 2009 , 79,	4.9	12
83	Conditional Linearizability of Fourth-Order Semi-Linear Ordinary Differential Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2009 , 16, 165	0.9	7
82	Reduction and Solutions for Magnetohydrodynamic Flow of a Sisko Fluid in a Porous Medium. <i>Journal of Porous Media</i> , 2009 , 12, 695-714	2.9	11
81	Lagrangian formulation of a generalized Lane-Emden equation and double reduction. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 152	0.9	43
80	EFFECTS OF AN ENDOSCOPE AND AN ELECTRICALLY CONDUCTING THIRD GRADE FLUID ON PERISTALTIC MOTION. <i>International Journal of Modern Physics B</i> , 2008 , 22, 3997-4016	1.1	7
79	Complex Lie Symmetries for Variational Problems. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 25	0.9	19
78	The Rayleigh Problem for a Third Grade Electrically Conducting Fluid in a Magnetic Field. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 77	0.9	4
77	Symmetry Solutions of a Third-Order Ordinary Differential Equation which Arises from Prandtl Boundary Layer Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 179	0.9	11
76	Conditional Linearizability Criteria for Third Order Ordinary Differential Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 124	0.9	9
75	Complete Invariant Characterization of Scalar Linear (1+1) Parabolic Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 112	0.9	21
74	Peristaltic MHD Flow of Third Grade Fluid with an Endoscope and Variable Viscosity. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 91	0.9	26
73	Partial Noether Operators and First Integrals for a System with two Degrees of Freedom. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 165	0.9	3
72	AXIAL COUETTE FLOW OF AN ELECTRICALLY CONDUCTING FLUID IN AN ANNULUS. <i>International Journal of Modern Physics B</i> , 2008 , 22, 2489-2500	1.1	7

71	First integrals for a general linear system of two second-order ODEs via a partial Lagrangian. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 355207	2	5
70	A Formal Approach for Handling Lie Point Symmetries of Scalar First-Order Ito Stochastic Ordinary Differential Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2008 , 15, 44	0.9	19
69	Unsteady Solutions in a Third-Grade Fluid Filling the Porous Space. <i>Mathematical Problems in Engineering</i> , 2008 , 2008, 1-13	1.1	7
68	Noether, partial Noether operators and first integrals for a linear system. <i>Journal of Mathematical Analysis and Applications</i> , 2008 , 342, 70-82	1.1	9
67	Comparison of different approaches to conservation laws for some partial differential equations in fluid mechanics. <i>Applied Mathematics and Computation</i> , 2008 , 205, 212-230	2.7	131
66	Constructing a space from the geodesic equations. <i>Computer Physics Communications</i> , 2008 , 179, 438-444	2.2	9
65	Exact solutions for thin film flow of a third grade fluid down an inclined plane. <i>Chaos, Solitons and Fractals</i> , 2008 , 38, 1336-1341	9.3	37
64	A generalized Fitzhugh-Nagumo equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2008 , 68, 1006-1015	1.3	10
63	Symmetry group classification of ordinary differential equations: Survey of some results. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 1995-2012	2.3	76
62	Partial Noether operators and first integrals via partial Lagrangians. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 2079-2089	2.3	38
61	Symmetries of first-order stochastic ordinary differential equations revisited. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 2013-2025	2.3	20
60	Gliding motion of bacterium in a non-Newtonian slime. <i>Nonlinear Analysis: Real World Applications</i> , 2007 , 8, 853-864	2.1	9
59	Linearization criteria for a system of second-order quadratically semi-linear ordinary differential equations. <i>Nonlinear Dynamics</i> , 2007 , 48, 417-422	5	35
58	Approximate symmetries and conservation laws of the geodesic equations for the Schwarzschild metric. <i>Nonlinear Dynamics</i> , 2007 , 51, 183-188	5	31
57	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
56	Exact solutions for Couette and Poiseuille flows for fourth grade fluids. <i>Acta Mechanica</i> , 2007 , 188, 69-78	1.1	9
55	Note on an exact solution for the pipe flow of a third-grade fluid. <i>Acta Mechanica</i> , 2007 , 190, 233-236	2.1	19
54	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

53	Endoscope effects on MHD peristaltic flow of a power-law fluid. <i>Mathematical Problems in Engineering</i> , 2006 , 2006, 1-19	1.1	25
52	Noether-Type Symmetries and Conservation Laws Via Partial Lagrangians. <i>Nonlinear Dynamics</i> , 2006 , 45, 367-383	5	182
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