Rita Tracina'

List of Publications by Year
in descending order

61	633	567281	610901
papers	citations	15 h-index	24 g-index

63	63	63	222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-adjointness and conservation laws of a generalized Burgers equation. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 145201.	2.1	51
2	Quasi self-adjoint nonlinear wave equations. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 442001.	2.1	41
3	Basic Theorems in the Equilibrium Theory of Thermoelasticity with Microtemperatures. Journal of Thermal Stresses, 2010, 33, 721-753.	2.0	39
4	Equivalence transformations and symmetries for a heat conduction model. International Journal of Non-Linear Mechanics, 1998, 33, 473-487.	2.6	38
5	A group analysis approach for a nonlinear differential system arising in diffusion phenomena. Journal of Mathematical Physics, 1996, 37, 4758-4767.	1.1	36
6	Quasi self-adjointness of a class of third order nonlinear dispersive equations. Nonlinear Analysis: Real World Applications, 2013, 14, 1496-1502.	1.7	34
7	Nonlinear self-adjointness, conservation laws, exact solutions of a system of dispersive evolution equations. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3036-3043.	3.3	33
8	Second-order differential invariants of a family of diffusion equations. Journal of Physics A, 2005, 38, 7519-7526.	1.6	30
9	Exact solutions of a reactionâ€“diffusion system for Proteus mirabilis bacterial colonies. Nonlinear Analysis: Real World Applications, 2011, 12, 1865-1874.	1.7	26
10	Invariants of a family of nonlinear wave equations. Communications in Nonlinear Science and Numerical Simulation, 2004, 9, 127-133.	3.3	22
11	On some differential invariants for a family of diffusion equations. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 8803-8813.	2.1	22
12	On the nonlinear self-adjointness of the Zakharovâ€“Kuznetsov equation. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 377-382.	3.3	19
13	On the Linearization of Semilinear Wave Equations. Nonlinear Dynamics, 2004, 36, 97-106.	5.2	15
14	An Application of Equivalence Transformations to Reaction Diffusion Equations. Symmetry, 2015, 7, 1929-1944.	2.2	15
15	On the nonlinear self-adjointness of a class of fourth-order evolution equations. Applied Mathematics and Computation, 2016, 275, 299-304.	2.2	15
16	Nonlinear self-adjointness of a class of third order nonlinear dispersive equations. Communications in Nonlinear Science and Numerical Simulation, 2016, 32, 225-233.	3.3	15
17	Differential invariants for quasi-linear and semi-linear wave-type equations. Applied Mathematics and Computation, 2008, 202, 216-228.	2.2	14
18	Representations of Solutions in the Theory of Thermoelasticity with Microtemperatures for Microstretch Solids. Journal of Thermal Stresses, 2011, 34, 161-178.	2.0	14

#	Article	IF	Citations
19	Lie group analysis of two-dimensional variable-coefficient Burgers equation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2010, 61, 793-809.	1.4	13
20	On some applications of transformation groups to a class of nonlinear dispersive equations. Nonlinear Analysis: Real World Applications, 2012, 13, 1139-1151.	1.7	13
21	Group methods applied to a reaction-diffusion system generalizing Proteus Mirabilis models. Communications in Nonlinear Science and Numerical Simulation, 2019, 70, 223-233.	3.3	13
22	Some traveling wave solutions for the dissipative Zabolotskayaâ€“Khokhlov equation. Journal of Mathematical Physics, 2009, 50, 103504.	1.1	11
23	Application of Lie point symmetries to the resolution of an interface problem in a generalized Fisher equation. Physica D: Nonlinear Phenomena, 2020, 405, 132411.	2.8	10
24	Invariants of two- and three-dimensional hyperbolic equations. Journal of Mathematical Analysis and Applications, 2009, 349, 516-525.	1.0	9
25	Exact solutions via equivalence transformations of variable-coefficient fifth-order KdV equations. Applied Mathematics and Computation, 2018, 325, 239-245.	2.2	8
26	Lie Symmetries and Solutions of Reaction Diffusion Systems Arising in Biomathematics. Symmetry, 2021, 13, 1530.	2.2	7
27	Approximate solutions to the quantum drift-diffusion model of semiconductors. Journal of Mathematical Physics, 2007, 48, 023501.	1.1	6
28	Nonlinear self-adjointness: a criterion for linearization of PDEs. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 06FT01.	2.1	6
29	Differential invariants for third-order evolution equations. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 352-359.	3.3	6
30	Lie symmetry analysis of a variable coefficient Calogeroâ€“Degasperis equation. Physica Scripta, 2018, 93, 105202.	2.5	6
31	Symmetries and special solutions of a parabolic chemotaxis system. Mathematical Methods in the Applied Sciences, 2021, 44, 2050-2058.	2.3	6
32	Symmetry analysis for a Fisher equation with exponential diffusion. Mathematical Methods in the Applied Sciences, 2018, 41, 7214-7226.	2.3	5
33	New solutions for the quantum driftâ€“diffusion model of semiconductors. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 485211.	2.1	4
34	On the invariants of two dimensional linear parabolic equations. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3673-3681.	3.3	4
35	Quasi Self-adjoint Reaction Diffusion Systems. , 2011, , .		3
36	Nonlinear self-adjointness of a class of generalized diffusion equations. , 2012, , .		3

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37	ON A CLASS OF REACTION DIFFUSION SYSTEMS: EQUIVALENCE TRANSFORMATIONS AND SYMMETRIES. , 2007, , .		2
38	Symmetry approach for a three coupled Schroedinger equation system. Applied Mathematics and Computation, 2008, 204, 408-415.	2.2	2
39	Fundamental solution in classical elasticity via Lie group method. Applied Mathematics and Computation, 2012, 218, 5132-5139.	2.2	2
40	Some new solutions for the Derridaâ€“Lebowitzâ€“Speerâ€“Spohn equation. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2388-2397.	3.3	2
41	On the symmetric conservative form of a binary reacting mixture. Zeitschrift Fur Angewandte Mathematik Und Physik, 1991, 42, 100-108.	1.4	1
42	GROUP CLASSIFICATION OF THREE-DIMENSIONAL VARIABLE-COEFFICIENT BURGERS EQUATION. , 2010, , .		1
43	Recent Advances in Symmetry Groups and Conservation Laws for Partial Differential Equations and Applications. Abstract and Applied Analysis, 2014, 2014, 1-2.	0.7	1
44	A Mongeâ€“Ampere Equation with an Unusual Boundary Condition. Symmetry, 2015, 7, 2009-2024.	2.2	1
45	Group classification of an energy transport model for semiconductors with crystal heating. Computational and Applied Mathematics, 2015, 34, 1167-1174.	1.3	1
46	Numerical solutions to a microcontinuum model using WENO schemes. Continuum Mechanics and Thermodynamics, 2020, 32, 945-957.	2.2	1
47	Applications of Solvable Lie Algebras to a Class of Third Order Equations. Mathematics, 2022, 10, 254.	2.2	1
48	Reductions and Conservation Laws of a Generalized Third-Order PDE via Multi-Reduction Method. Mathematics, 2022, 10, 954.	2.2	1
49	Preface of the Symposium: â€œGroup Methods and Applications for Differential Equationsâ€• , 2011, , .		0
50	Symmetry Methods for a Geophysical Mass Flow Model. , 2011, , .		0
51	Preface of the â€œMini symposium on symmetry methods and applications for differential equationsâ€• , 2012, , .		0
52	Laplace type invariants for variable coefficient mKdV equations. Journal of Physics: Conference Series, 2015, 621, 012015.	0.4	0
53	Preface of the â€œII mini symposium on symmetry methods and applications for differential equationsâ€• AIP Conference Proceedings, 2015, , .	0.4	0
54	Preface of the â€œIII Minisymposium on Symmetry Methods and Applications for Differential Equationsâ€• AIP Conference Proceedings, 2017, , .	0.4	0

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55	Recent Advances in Symmetry Analysis and Exact Solutions in Nonlinear Mathematical Physics. Advances in Mathematical Physics, 2017, 2017, 1-2.	0.8	0
56	Group methods applied to a reaction diffusion system. AIP Conference Proceedings, 2018, , .	0.4	0
57	Differential invariants of a class of second order nonlinear evolution equations. AIP Conference Proceedings, 2019, , .	0.4	0
58	ON THE SYMMETRY CLASSIFICATION FOR A HEAT CONDUCTION MODEL. , 2002, , .		0
59	A NEW CLASS OF LINEARIZABLE WAVE EQUATIONS. , 2004, , .		0
60	On Symmetry Reductions of a Third-Order Partial Differential Equation. Mathematics in Industry, 2020, , 225-232.	0.3	0
61	VI Mini Symposium on Symmetry Methods and Their Applications to Differential Equations. AIP Conference Proceedings, 2020, , .	0.4	0