

Giuseppe Gaeta

List of Publications by Year in descending order

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59
papers

1,134
citations

430874

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h-index

501196

28
g-index

64
all docs

64
docs citations

64
times ranked

401
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Simple models of non-linear DNA dynamics. <i>Rivista Del Nuovo Cimento</i> , 1994, 17, 1-48. | 5.7 | 94 |
| 2 | Nonlinear Symmetries and Nonlinear Equations. , 1994, , . | | 81 |
| 3 | Symmetry and Perturbation Theory. , 2000, , . | | 78 |
| 4 | Lie-point symmetries and stochastic differential equations. <i>Journal of Physics A</i> , 1999, 32, 8485-8505. | 1.6 | 60 |
| 5 | On the geometry of lambda-symmetries and PDE reduction. <i>Journal of Physics A</i> , 2004, 37, 6955-6975. | 1.6 | 60 |
| 6 | A simple SIR model with a large set of asymptomatic infectives. <i>Mathematics in Engineering</i> , 2021, 3, 1-39. | 0.9 | 46 |
| 7 | On the relation between standard and $\hat{\Lambda}$ -symmetries for PDEs. <i>Journal of Physics A</i> , 2004, 37, 9467-9486. | 1.6 | 43 |
| 8 | Composite model for DNA torsion dynamics. <i>Physical Review E</i> , 2007, 75, 021919. | 2.1 | 36 |
| 9 | Size and timescale of epidemics in the SIR framework. <i>Physica D: Nonlinear Phenomena</i> , 2020, 411, 132626. | 2.8 | 35 |
| 10 | Partial Lie-point symmetries of differential equations. <i>Journal of Physics A</i> , 2001, 34, 491-512. | 1.6 | 33 |
| 11 | Poincaré Normal and Renormalized Forms. <i>Acta Applicandae Mathematicae</i> , 2002, 70, 113-131. | 1.0 | 32 |
| 12 | Normal forms, symmetry and linearization of dynamical systems. <i>Journal of Physics A</i> , 1998, 31, 5065-5082. | 1.6 | 29 |
| 13 | Octupolar order in three dimensions. <i>European Physical Journal E</i> , 2016, 39, 113. | 1.6 | 28 |
| 14 | Lie-point symmetries and stochastic differential equations: II. <i>Journal of Physics A</i> , 2000, 33, 4883-4902. | 1.6 | 27 |
| 15 | Twisted Symmetries of Differential Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2009, 16, 107. | 1.3 | 25 |
| 16 | Symmetry of stochastic non-variational differential equations. <i>Physics Reports</i> , 2017, 686, 1-62. | 25.6 | 23 |
| 17 | Normal forms and nonlinear symmetries. <i>Journal of Physics A</i> , 1994, 27, 7115-7124. | 1.6 | 21 |
| 18 | A minimal model of DNA dynamics in interaction with RNA-Polymerase. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1805-1817. | 2.8 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Poincare normal forms and Lie point symmetries. Journal of Physics A, 1994, 27, 461-476. | 1.6 | 19 |
| 20 | A gauge-theoretic description of \hat{L}^1 -prolongations, and \hat{L}^1 -symmetries of differential equations. Journal of Geometry and Physics, 2009, 59, 519-539. | 1.4 | 19 |
| 21 | Random Lie-point symmetries of stochastic differential equations. Journal of Mathematical Physics, 2017, 58, . | 1.1 | 18 |
| 22 | A generalization of \hat{L}^1 -symmetry reduction for systems of ODEs: \hat{L}^1 -symmetries. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 355205. | 2.1 | 17 |
| 23 | Propagation of Twist Solitons in Fully Inhomogeneous DNA Chains. Journal of Nonlinear Mathematical Physics, 2010, 17, 557. | 1.3 | 16 |
| 24 | Hyper-Hamiltonian dynamics. Journal of Physics A, 2002, 35, 3925-3943. | 1.6 | 15 |
| 25 | Asymptotic Scaling in a Model Class of Anomalous Reaction-Diffusion Equations. Journal of Nonlinear Mathematical Physics, 2005, 12, 550. | 1.3 | 15 |
| 26 | Embedding and splitting ordinary differential equations in normal form. Journal of Differential Equations, 2006, 224, 98-119. | 2.2 | 15 |
| 27 | Twist solitons in complex macromolecules: From DNA to polyethylene. International Journal of Non-Linear Mechanics, 2008, 43, 1094-1107. | 2.6 | 15 |
| 28 | Social distancing versus early detection and contacts tracing in epidemic management. Chaos, Solitons and Fractals, 2020, 140, 110074. | 5.1 | 14 |
| 29 | Symmetry invariance and centre manifolds for dynamical systems. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1994, 109, 59-76. | 0.2 | 13 |
| 30 | On Lie-point symmetries for Ito stochastic differential equations. Journal of Nonlinear Mathematical Physics, 2017, 24, 90. | 1.3 | 13 |
| 31 | Symmetry and integrability for stochastic differential equations. Journal of Nonlinear Mathematical Physics, 2018, 25, 262. | 1.3 | 13 |
| 32 | Asymptotic symmetries and asymptotically symmetric solutions of partial differential equations. Journal of Physics A, 1994, 27, 437-451. | 1.6 | 12 |
| 33 | Reduction and reconstruction for symmetric ordinary differential equations. Journal of Differential Equations, 2008, 244, 1810-1839. | 2.2 | 12 |
| 34 | W-symmetries of Ito stochastic differential equations. Journal of Mathematical Physics, 2019, 60, 053501. | 1.1 | 11 |
| 35 | Non-perturbative linearization of dynamical systems. Journal of Physics A, 1996, 29, 5035-5048. | 1.6 | 10 |
| 36 | Dimension Increase and Splitting for Poincaré-Dulac Normal Forms. Journal of Nonlinear Mathematical Physics, 2005, 12, 327. | 1.3 | 10 |

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|----|--|-----|-----------|
| 37 | Discrete symmetries of differential equations. Journal of Physics A, 1996, 29, 859-880. | 1.6 | 9 |
| 38 | ASYMPTOTIC SCALING SYMMETRIES FOR NONLINEAR PDES. International Journal of Geometric Methods in Modern Physics, 2005, 02, 1081-1114. | 2.0 | 9 |
| 39 | A symmetry breaking mechanism for selecting the speed of relativistic solitons. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 8517-8534. | 2.1 | 9 |
| 40 | Dynamical systems and \mathfrak{h} -symmetries. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 235204. | 2.1 | 9 |
| 41 | SMOOTH CHANGES OF FRAME AND PROLONGATIONS OF VECTOR FIELDS. International Journal of Geometric Methods in Modern Physics, 2007, 04, 807-827. | 2.0 | 8 |
| 42 | Simple and collective twisted symmetries. Journal of Nonlinear Mathematical Physics, 2014, 21, 593. | 1.3 | 7 |
| 43 | Hyperkähler Structure of the Taub-NUT Metric. Journal of Nonlinear Mathematical Physics, 2012, 19, 226. | 1.3 | 6 |
| 44 | On the physical applications of hyper-Hamiltonian dynamics. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 175203. | 2.1 | 5 |
| 45 | Integration of the stochastic logistic equation via symmetry analysis. Journal of Nonlinear Mathematical Physics, 2019, 26, 454. | 1.3 | 5 |
| 46 | The Symmetries of Octupolar Tensors. Journal of Elasticity, 2019, 135, 295-350. | 1.9 | 5 |
| 47 | Lie-point symmetries and nonlinear dynamical systems. Mathematical and Computer Modelling, 1997, 25, 101-113. | 2.0 | 3 |
| 48 | Quaternionic Integrability. Journal of Nonlinear Mathematical Physics, 2011, 18, 461. | 1.3 | 3 |
| 49 | Gauge fixing and twisted prolongations. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 325203. | 2.1 | 3 |
| 50 | Canonical transformations for hyperkähler structures and hyperhamiltonian dynamics. Journal of Mathematical Physics, 2014, 55, 052901. | 1.1 | 3 |
| 51 | Symmetry and quaternionic integrable systems. Journal of Geometry and Physics, 2015, 87, 134-148. | 1.4 | 3 |
| 52 | Speed selection for coupled wave equations. Journal of Nonlinear Mathematical Physics, 2015, 22, 275. | 1.3 | 2 |
| 53 | Structure preserving transformations in hyperkähler Euclidean spaces. Journal of Geometry and Physics, 2016, 100, 33-51. | 1.4 | 2 |
| 54 | Symmetry classification of scalar Ito equations with multiplicative noise. Journal of Nonlinear Mathematical Physics, 2020, 27, 679. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Asymptotic symmetry and asymptotic solutions to Ito stochastic differential equations. Mathematics in Engineering, 2022, 4, 1-52. | 0.9 | 2 |
| 56 | Symmetry Analysis of the Stochastic Logistic Equation. Symmetry, 2020, 12, 973. | 2.2 | 1 |
| 57 | Mass vaccination in a roaring pandemic. Chaos, Solitons and Fractals, 2022, 156, 111786. | 5.1 | 1 |
| 58 | Canonical transformations for hyperhamiltonian dynamics in Euclidean spaces. Journal of Geometry and Physics, 2017, 113, 38-52. | 1.4 | 0 |
| 59 | On the geometry of twisted symmetries: Gauging and coverings. Journal of Geometry and Physics, 2020, 151, 103620. | 1.4 | 0 |