Stefano Vignolo

List of Publications by Year
in descending order

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52	775	567281	552781
papers	citations	15	26
		h-index	g-index

52	52	52	320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spinor fields in f(Q) -gravity. Classical and Quantum Gravity, 2022, 39, 015009.	4.0	3
2	Performance Simulation of Marine Cycloidal Propellers: A Both Theoretical and Heuristic Approach. Journal of Marine Science and Engineering, 2022, 10, 505.	2.6	3
3	Reconstructing isotropic and anisotropic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi mathvariant="script">Q</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 65	4.7	25
4	A square-integrable spinor solution to non-interacting Dirac equations. AIP Advances, 2021, 11, .	1.3	3
5	Axially symmetric exact solutions for flagpole fermions with gravity. European Physical Journal Plus, 2020, 135, 1.	2.6	1
6	Small oscillations of non-dissipative Lagrangian systems. Journal of Mathematical Physics, 2019, 60, .	1.1	0
7	Motion Control for Autonomous Navigation in Blue and Narrow Water Using Switched Controllers. Journal of Marine Science and Engineering, 2019, 7, 196.	2.6	17
8	Some Mathematical Aspects of f(R)-Gravity with Torsion: Cauchy Problem and Junction Conditions. Universe, 2019, 5, 224.	2.5	5
9	Dirac Spinors and Their Application to Bianchi-I Space-Times in 5 Dimensions. Advances in Applied Clifford Algebras, 2019, 29, 1.	1.0	1
10	On the junction conditions in $f(R)$ -gravity with torsion. Classical and Quantum Gravity, 2018, 35, 095014.	4.0	18
11	Design and Validation of Dynamic Positioning for Marine Systems: A Case Study. IEEE Journal of Oceanic Engineering, 2018, 43, 677-688.	3.8	25
12	A new geometrical look at Ostrogradskyâ€™s procedure. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850128.	2.0	1
13	Floating rigid bodies: a note on the conservativeness of the hydrostatic effects. Meccanica, 2017, 52, 2491-2497.	2.0	1
14	Critical exact solutions for self-gravitating Dirac fields. European Physical Journal C, 2016, 76, 1.	3.9	9
15	A torsional completion of gravity for Dirac matter fields and its applications to neutrino oscillations. Modern Physics Letters A, 2016, 31, 1650014.	1.2	3
16	Newtonâ€“Euler, Lagrange and Kirchhoff formulations of rigid body dynamics: a unified approach. Meccanica, 2016, 51, 2019-2023.	2.0	4
17	Exact solutions for Weyl fermions with gravity. European Physical Journal C, 2015, 75, 1.	3.9	13
18	Torsion gravity with nonminimally coupled fermionic field: Some cosmological models. Physical Review D, 2015, 91, .	4.7	12

#	Article	IF	Citations
19	Non-minimally coupled condensate cosmologies: a phase space analysis. Classical and Quantum Gravity, 2014, 31, 185007.	4.0	12
20	Controllable pitch propeller actuating mechanism, modelling and simulation. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2014, 228, 29-43.	0.5	13
21	Renormalizability of the Dirac equation in torsion gravity with nonminimal coupling. Physical Review D, 2014, 90, .	4.7	9
22	ELKO and Dirac spinors seen from torsion. International Journal of Modern Physics D, 2014, 23, 1444001.	2.1	15
23	The Cauchy problem in hybrid metric-Palatini f(X)-gravity. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450042.	2.0	49
24	Numerical modelling of propulsion, control and ship motions in 6 degrees of freedom. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2014, 228, 373-397.	0.5	13
25	The dynamics of Bianchi I universes in $mathcal{R}^n$ cosmologies with torsion. Classical and Quantum Gravity, 2013, 30, 205010.	4.0	20
26	Reconstructing exact scalar-tensor cosmologies via conformal transformations. Physical Review D, 2013, 88, .	4.7	5
27	WEAK FORCES AND NEUTRINO OSCILLATIONS UNDER THE STANDARDS OF HYBRID GRAVITY WITH TORSION. Modern Physics Letters A, 2013, 28, 1350155.	1.2	5
28	SPIN FLUIDS IN BIANCHI-I f(R)-COSMOLOGY WITH TORSION. International Journal of Geometric Methods in Modern Physics, 2012, 09, 1250054.	2.0	9
29	A Modified Theory of Gravity with Torsion and Its Applications to Cosmology and Particle Physics. International Journal of Theoretical Physics, 2012, 51, 3186-3207.	1.2	62
30	Running coupling in electroweak interactions of leptons from f(R)-gravity with torsion. European Physical Journal C, 2012, 72, 1.	3.9	18
31	A squareâ€torsion modification of Einsteinâ€Cartan theory. Annalen Der Physik, 2012, 524, 826-839.	2.4	16
32	Dirac fields in f (R)-gravity with torsion. Classical and Quantum Gravity, 2011, 28, 125002.	4.0	36
33	Dirac spinors in Bianchi-I f(R)-cosmology with torsion. Journal of Mathematical Physics, 2011, 52, 112502.	1.1	45
34	Testing metric-affine f(R)-gravity by relic scalar gravitational waves. European Physical Journal C, 2010, 70, 341-349.	3.9	22
35	A comment on â€˜The Cauchy problem of f (R) gravityâ€™. Classical and Quantum Gravity, 2009, 26, 168001.	4.0	19
36	The Cauchy problem for metric-affine f (R)-gravity in the presence of perfect-fluid matter. Classical and Quantum Gravity, 2009, 26, 175013.	4.0	72

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37	f (R) gravity with torsion: the metric-affine approach. Classical and Quantum Gravity, 2007, 24, 6417-6430.	4.0	85
38	Variational techniques in general relativity: A metric-affine approach to Kaluzaâ€™s theory. Journal of Mathematical Physics, 2007, 48, 022501.	1.1	0
39	A vielbein formulation of unified Einsteinâ€“Maxwell theory. Classical and Quantum Gravity, 2006, 23, 6781-6791.	4.0	3
40	GENERAL RELATIVITY AS A CONSTRAINED GAUGE THEORY. International Journal of Geometric Methods in Modern Physics, 2006, 03, 1493-1500.	2.0	8
41	Gravity and Yang-Mills Fields: Geometrical Approaches. AIP Conference Proceedings, 2005, , .	0.4	2
42	A first-order purely frame-formulation of general relativity. Classical and Quantum Gravity, 2005, 22, 4063-4069.	4.0	9
43	ON THE HAMILTONIAN FORMULATION OF YANGâ€“MILLS GAUGE THEORIES. International Journal of Geometric Methods in Modern Physics, 2005, 02, 1115-1131.	2.0	9
44	A new geometrical look at gravity coupled with Yangâ€“Mills fields. Journal of Mathematical Physics, 2004, 45, 4448-4463.	1.1	12
45	Geometrical aspects in Yangâ€“Mills gauge theories. Journal of Physics A, 2004, 37, 2519-2526.	1.6	10
46	Legendre transformation and analytical mechanics: A geometric approach. Journal of Mathematical Physics, 2003, 44, 1709-1722.	1.1	6
47	The geometrical framework for Yangâ€“Mills theories. Journal of Physics A, 2003, 36, 8341-8358.	1.6	10
48	A geometric description of Routhâ€™s procedure. Addendum: â€œLegendre transformation and analytical mechanics: A geometric approachâ€•[J. Math. Phys. 44, 1709 (2003)]. Journal of Mathematical Physics, 2003, 44, 3141.	1.1	1
49	Iper-ideal kinetic constraints in continuum mechanics. Journal of Mathematical Physics, 2002, 43, 325-343.	1.1	3
50	Non-holonomic Lagrangian and Hamiltonian mechanics: an intrinsic approach. Journal of Physics A, 2002, 35, 6713-6742.	1.6	13
51	A new presymplectic geometrical framework for time-dependent Lagrangian systems: the constraint algorithm and the second-order differential equation problem. Journal of Physics A, 2000, 33, 5117-5135.	1.6	8
52	A geometric approach to constrained mechanical systems, symmetries and inverse problems. Journal of Physics A, 1998, 31, 8233-8245.	1.6	12