

# Stefano Vignolo

## List of Publications by Year in descending order

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52  
papers

775  
citations

567281

15  
h-index

552781

26  
g-index

52  
all docs

52  
docs citations

52  
times ranked

320  
citing authors

#	ARTICLE	IF	CITATIONS
1	$f(R)$ gravity with torsion: the metric-affine approach. <i>Classical and Quantum Gravity</i> , 2007, 24, 6417-6430.	4.0	85
2	The Cauchy problem for metric-affine $f(R)$ -gravity in the presence of perfect-fluid matter. <i>Classical and Quantum Gravity</i> , 2009, 26, 175013.	4.0	72
3	A Modified Theory of Gravity with Torsion and Its Applications to Cosmology and Particle Physics. <i>International Journal of Theoretical Physics</i> , 2012, 51, 3186-3207.	1.2	62
4	The Cauchy problem in hybrid metric-Palatini $f(X)$ -gravity. <i>International Journal of Geometric Methods in Modern Physics</i> , 2014, 11, 1450042.	2.0	49
5	Dirac spinors in Bianchi-I $f(R)$ -cosmology with torsion. <i>Journal of Mathematical Physics</i> , 2011, 52, 112502.	1.1	45
6	Dirac fields in $f(R)$ -gravity with torsion. <i>Classical and Quantum Gravity</i> , 2011, 28, 125002.	4.0	36
7	Design and Validation of Dynamic Positioning for Marine Systems: A Case Study. <i>IEEE Journal of Oceanic Engineering</i> , 2018, 43, 677-688.	3.8	25
8	Reconstructing isotropic and anisotropic $f(R)$ -gravity with torsion. <i>Classical and Quantum Gravity</i> , 2011, 28, 125002.	4.7	25
9	Testing metric-affine $f(R)$ -gravity by relic scalar gravitational waves. <i>European Physical Journal C</i> , 2010, 70, 341-349.	3.9	22
10	The dynamics of Bianchi I universes in $f(R)$ cosmologies with torsion. <i>Classical and Quantum Gravity</i> , 2013, 30, 205010.	4.0	20
11	A comment on "The Cauchy problem of $f(R)$ gravity". <i>Classical and Quantum Gravity</i> , 2009, 26, 168001.	4.0	19
12	Running coupling in electroweak interactions of leptons from $f(R)$ -gravity with torsion. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	18
13	On the junction conditions in $f(R)$ -gravity with torsion. <i>Classical and Quantum Gravity</i> , 2018, 35, 095014.	4.0	18
14	Motion Control for Autonomous Navigation in Blue and Narrow Water Using Switched Controllers. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 196.	2.6	17
15	A square-root torsion modification of Einstein-Cartan theory. <i>Annalen Der Physik</i> , 2012, 524, 826-839.	2.4	16
16	ELKO and Dirac spinors seen from torsion. <i>International Journal of Modern Physics D</i> , 2014, 23, 1444001.	2.1	15
17	Non-holonomic Lagrangian and Hamiltonian mechanics: an intrinsic approach. <i>Journal of Physics A</i> , 2002, 35, 6713-6742.	1.6	13
18	Controllable pitch propeller actuating mechanism, modelling and simulation. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2014, 228, 29-43.	0.5	13

#	ARTICLE	IF	CITATIONS
19	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
20	Exact solutions for Weyl fermions with gravity. European Physical Journal C, 2015, 75, 1.	3.9	13
21	A geometric approach to constrained mechanical systems, symmetries and inverse problems. Journal of Physics A, 1998, 31, 8233-8245.	1.6	12
22	A new geometrical look at gravity coupled with Yang-Mills fields. Journal of Mathematical Physics, 2004, 45, 4448-4463.	1.1	12
23	Non-minimally coupled condensate cosmologies: a phase space analysis. Classical and Quantum Gravity, 2014, 31, 185007.	4.0	12
24	Torsion gravity with nonminimally coupled fermionic field: Some cosmological models. Physical Review D, 2015, 91, .	4.7	12
25	The geometrical framework for Yang-Mills theories. Journal of Physics A, 2003, 36, 8341-8358.	1.6	10
26	Geometrical aspects in Yang-Mills gauge theories. Journal of Physics A, 2004, 37, 2519-2526.	1.6	10
27	A first-order purely frame-formulation of general relativity. Classical and Quantum Gravity, 2005, 22, 4063-4069.	4.0	9
28	ON THE HAMILTONIAN FORMULATION OF YANG-MILLS GAUGE THEORIES. International Journal of Geometric Methods in Modern Physics, 2005, 02, 1115-1131.	2.0	9
29	SPIN FLUIDS IN BIANCHI- $f(R)$ -COSMOLOGY WITH TORSION. International Journal of Geometric Methods in Modern Physics, 2012, 09, 1250054.	2.0	9
30	Renormalizability of the Dirac equation in torsion gravity with nonminimal coupling. Physical Review D, 2014, 90, .	4.7	9
31	Critical exact solutions for self-gravitating Dirac fields. European Physical Journal C, 2016, 76, 1.	3.9	9
32	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
33	GENERAL RELATIVITY AS A CONSTRAINED GAUGE THEORY. International Journal of Geometric Methods in Modern Physics, 2006, 03, 1493-1500.	2.0	8
34	Legendre transformation and analytical mechanics: A geometric approach. Journal of Mathematical Physics, 2003, 44, 1709-1722.	1.1	6
35	Reconstructing exact scalar-tensor cosmologies via conformal transformations. Physical Review D, 2013, 88, .	4.7	5
36	WEAK FORCES AND NEUTRINO OSCILLATIONS UNDER THE STANDARDS OF HYBRID GRAVITY WITH TORSION. Modern Physics Letters A, 2013, 28, 1350155.	1.2	5

#	ARTICLE	IF	CITATIONS
37	Some Mathematical Aspects of $f(R)$ -Gravity with Torsion: Cauchy Problem and Junction Conditions. <i>Universe</i> , 2019, 5, 224.	2.5	5
38	Newton's Euler, Lagrange and Kirchhoff formulations of rigid body dynamics: a unified approach. <i>Meccanica</i> , 2016, 51, 2019-2023.	2.0	4
39	Super-ideal kinetic constraints in continuum mechanics. <i>Journal of Mathematical Physics</i> , 2002, 43, 325-343.	1.1	3
40	A vielbein formulation of unified Einstein-Maxwell theory. <i>Classical and Quantum Gravity</i> , 2006, 23, 6781-6791.	4.0	3
41	A torsional completion of gravity for Dirac matter fields and its applications to neutrino oscillations. <i>Modern Physics Letters A</i> , 2016, 31, 1650014.	1.2	3
42	Spinor fields in $f(Q)$ -gravity. <i>Classical and Quantum Gravity</i> , 2022, 39, 015009.	4.0	3
43	A square-integrable spinor solution to non-interacting Dirac equations. <i>AIP Advances</i> , 2021, 11, .	1.3	3
44	Performance Simulation of Marine Cycloidal Propellers: A Both Theoretical and Heuristic Approach. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 505.	2.6	3
45	Gravity and Yang-Mills Fields: Geometrical Approaches. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	2
46	A geometric description of Routh's procedure. Addendum: Legendre transformation and analytical mechanics: A geometric approach. [ <i>J. Math. Phys.</i> 44, 1709 (2003)]. <i>Journal of Mathematical Physics</i> , 2003, 44, 3141.	1.1	1
47	Floating rigid bodies: a note on the conservativeness of the hydrostatic effects. <i>Meccanica</i> , 2017, 52, 2491-2497.	2.0	1
48	A new geometrical look at Ostrogradsky's procedure. <i>International Journal of Geometric Methods in Modern Physics</i> , 2018, 15, 1850128.	2.0	1
49	Dirac Spinors and Their Application to Bianchi-I Space-Times in 5 Dimensions. <i>Advances in Applied Clifford Algebras</i> , 2019, 29, 1.	1.0	1
50	Axially symmetric exact solutions for flagpole fermions with gravity. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	1
51	Variational techniques in general relativity: A metric-affine approach to Kaluza's theory. <i>Journal of Mathematical Physics</i> , 2007, 48, 022501.	1.1	0
52	Small oscillations of non-dissipative Lagrangian systems. <i>Journal of Mathematical Physics</i> , 2019, 60, .	1.1	0