Joaquim Gomis Torne

List of Publications by Year
in descending order

107 papers	3,029 citations	172457 29 h-index	175258 52 g-index
107 all docs	107 docs citations	107 times ranked	887 citing authors

#	Article	IF	Citations
1	Antibracket, antifields and gauge-theory quantization. Physics Reports, 1995, 259, 1-145.	25.6	308
2	The construction of brane and superbrane actions using nonlinear realizations. Classical and Quantum Gravity, 2006, 23, 7369-7381.	4.0	200
3	General very special relativity is Finsler geometry. Physical Review D, 2007, 76, .	4.7	198
4	Are nonrenormalizable gauge theories renormalizable?. Nuclear Physics B, 1996, 469, 473-487.	2.5	128
5	Non-relativistic superstrings: a new soluble sector of AdS5Ã— S5. Journal of High Energy Physics, 2005, 2005, 024-024.	4.7	125
6	BPS bounds for worldvolume branes. Journal of High Energy Physics, 1998, 1998, 003-003.	4.7	108
7	â€˜Stringyâ€™ Newtonâ€“Cartan gravity. Classical and Quantum Gravity, 2012, 29, 235020.	4.0	104
8	Carroll versus Galilei gravity. Journal of High Energy Physics, 2017, 2017, 1.	4.7	88
9	Hamiltonian formalism for space-time noncommutative theories. Physical Review D, 2001, 63, .	4.7	77
10	Dynamics of Carroll particles. Classical and Quantum Gravity, 2014, 31, 205009.	4.0	76
11	Non-relativistic strings and branes as non-linear realizations of Galilei groups. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 594, 227-233.	4.1	69
12	Newton-Hooke algebras, nonrelativistic branes, and generalized pp-wave metrics. Physical Review D, 2006, 73, .	4.7	68
13	(2+1)D exotic Newtonâ€“Hooke symmetry, duality and projective phase. Annals of Physics, 2007, 322, 1556-1586.	2.8	68
14	Anisotropic harmonic oscillator, non-commutative Landau problem and exotic Newtonâ€“Hooke symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 906-912.	4.1	66
15	Maxwell Superalgebra and Superparticles in Constant Gauge Backgrounds. Physical Review Letters, 2010, 104, 090401.	7.8	62
16	SchrÃ¶dinger equations for higher order nonrelativistic particles and N-Galilean conformal symmetry. Physical Review D, 2012, 85, .	4.7	56
17	Non-Relativistic Superbranes. Journal of High Energy Physics, 2004, 2004, 051-051.	4.7	55
18	Kac-Moody spectrum of (half-)maximal supergravities. Journal of High Energy Physics, 2008, 2008, 069-069.	4.7	54

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19	Extended Galilean symmetries of non-relativistic strings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	49
20	Deformations of Maxwell algebra and their dynamical realizations. Journal of High Energy Physics, 2009, 2009, 039-039.	4.7	47
21	Non-relativistic Maxwell Chern-Simons gravity. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
22	Infinite sequence of Poincaré group extensions: structure and dynamics. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 015201.	2.1	40
23	Existence theorem for gauge symmetries in Hamiltonian constrained systems. Classical and Quantum Gravity, 1990, 7, 1089-1096.	4.0	38
24	Dynamics of Carroll strings. Journal of High Energy Physics, 2016, 2016, 1.	4.7	37
25	Newton-Hooke/Carrollian expansions of (A)dS and Chern-Simons gravity. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
26	A note on the Chevalley–Eilenberg cohomology for the Galilei and Poincaré algebras. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 145206.	2.1	35
27	On free Lie algebras and particles in electro-magnetic fields. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
28	Physical degrees of freedom of non-local theories. Nuclear Physics B, 2004, 696, 263-291.	2.5	32
29	Deformations of Maxwell superalgebras and their applications. Journal of Mathematical Physics, 2010, 51, .	1.1	32
30	Non-relativistic and Carrollian limits of Jackiw-Teitelboim gravity. Journal of High Energy Physics, 2021, 2021, 1.	4.7	30
31	Deforming the Maxwell-Sim algebra. Physical Review D, 2010, 82, .	4.7	26
32	D6-branes wrapping Kähler four-cycles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 524, 170-176.	4.1	24
33	Field-antifield formalism for anomalous gauge theories. Nuclear Physics B, 1993, 395, 288-324.	2.5	23
34	Confined dynamical systems with Carroll and Galilei symmetries. Physical Review D, 2018, 98, .	4.7	23
35	The Galilean superstring. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
36	Non relativistic Dpbranes. Journal of High Energy Physics, 2005, 2005, 007-007.	4.7	21

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37	Galilean free Lie algebras. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
38	The anti-BRST symmetry in the field-antifield formalism. Nuclear Physics B, 1990, 343, 152-166.	2.5	19
39	Tachyons in the Galilean limit. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
40	Pseudoclassical description for a nonrelativistic spinning particle. I. The Levy-Leblond equation. Physical Review D, 1986, 33, 2212-2219.	4.7	17
41	Rotating solutions of non-relativistic string theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 617, 182-192.	4.1	17
42	Diffeomorphism, kappa transformations and the theory of non-linear realisations. Journal of High Energy Physics, 2006, 2006, 015-015.	4.7	17
43	Non-linear realizations, Goldstone bosons of broken Lorentz rotations and effective actions for p-branes. Nuclear Physics B, 2013, 871, 420-451.	2.5	16
44	Lagrangian and Hamiltonian BRST structures of the antisymmetric tensor gauge theory. Physical Review D, 1988, 38, 1169-1175.	4.7	15
45	Script N=4 superconformal mechanics as a non linear realization. Journal of High Energy Physics, 2006, 2006, 068-068.	4.7	15
46	Poincaré transformations and Galilei transformations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 66, 463-465.	2.1	14
47	Enlarged NH symmetries: Particle dynamics and gauge symmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 664, 107-111.	4.1	14
48	The symmetries of the Carroll superparticle. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 185402.	2.1	14
49	To Construct Gauge Transformations from Singular Lagrangians. Europhysics Letters, 1986, 2, 187-194.	2.0	13
50	N = 2 string as a topological conformal theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 266-270.	4.1	13
51	Anomalies and Wess-Zumino terms in an extended, regularized field-antifield formalism. Nuclear Physics B, 1994, 431, 378-412.	2.5	13
52	Canonical realization of (‹mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T	4.7	13
53	Non-relativistic spinning particle in a Newton-Cartan background. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
54	Non-propagating degrees of freedom in supergravity and very extendedG2. Journal of High Energy Physics, 2007, 2007, 038-038.	4.7	12

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55	Space-time vector supersymmetry and massive spinning particle. Journal of High Energy Physics, 2008, 2008, 094-094.	4.7	12
56	Nonrelativistic superparticle in a curved background. Physical Review D, 2014, 90, .	4.7	11
57	Symmetries of Post-Galilean Expansions. Physical Review Letters, 2020, 124, 081602.	7.8	11
58	PoincarÃ©-Cartan integral invariant for constrained systems. Annals of Physics, 1979, 118, 476-489.	2.8	10
59	Supergravity Duals of Noncommutative Wrapped D6 Branes and Supersymmetry without Supersymmetry. Journal of High Energy Physics, 2002, 2002, 016-016.	4.7	10
60	Vector SUSY models with Carroll or Galilei invariance. Physical Review D, 2019, 99, .	4.7	10
61	Worldline description of fractons. Physical Review D, 2021, 104, .	4.7	10
62	D-String on Near Horizon Geometries and Infinite Conformal Symmetry. Physical Review Letters, 1998, 81, 1770-1773.	7.8	9
63	Stringy (Galilei) Newton-Hooke Chern-Simons gravities. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
64	Pseudoclassical description of a relativistic spinning particle. Physical Review D, 1985, 32, 1985-1992.	4.7	8
65	BRST-invariant path integral for a spinning relativistic particle. Physical Review D, 1989, 40, 1950-1955.	4.7	8
66	Unitarity and the field-antifield formalism. Nuclear Physics B, 1992, 368, 311-337.	2.5	8
67	Conformal symmetry for relativistic point particles. Physical Review D, 2014, 90, .	4.7	8
68	Symmetries of M-theory and free Lie superalgebras. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
69	Canonical realization of Bondi-Metzner-Sachs symmetry: Quadratic Casimir. Physical Review D, 2016, 93, .	4.7	7
70	Nonrelativistic k-contractions of the coadjoint PoincarÃ© algebra. International Journal of Modern Physics A, 2020, 35, 2050009.	1.5	7
71	Hamiltonian and Lagrangian constraints of the bosonic string. Physical Review D, 1986, 34, 2430-2432.	4.7	6
72	Pseudoclassical model of a particle with arbitrary spin. Physical Review D, 1986, 34, 1072-1075.	4.7	6

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73	Some aspects of the $N=2$ superstring. Physical Review D, 1989, 40, 408-414.	4.7	6
74	Particle Mechanics Models with W-Symmetries. Annals of Physics, 1995, 244, 67-100.	2.8	6
75	Cohomological analysis of bosonic D-strings and 2d sigma models coupled to abelian gauge fields. Nuclear Physics B, 1998, 523, 623-662.	2.5	6
76	Lie symmetries of nonrelativistic and relativistic motions. Physical Review D, 2019, 99, .	4.7	5
77	A canonical realization of the Weyl BMS symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135920.	4.1	5
78	Colourful Poincaré symmetry, gravity and particle actions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
79	Perturbation theory and locality in the field–antifield formalism. Journal of Mathematical Physics, 1993, 34, 2132-2152.	1.1	4
80	Supertubes in reduced holonomy manifolds. Classical and Quantum Gravity, 2003, 20, 3113-3127.	4.0	4
81	Vector supersymmetry: Casimir operators and contraction from $\tilde{O}Sp(3,2\mid 2)$. Journal of High Energy Physics, 2009, 2009, 035-035.	4.7	4
82	Space-time transformations of the Born-Infeld gauge field of a D-brane. Physical Review D, 2011, 84, .	4.7	4
83	Dynamical sectors for a spinning particle in AdS_3 . Physical Review D, 2014, 90, .	4.7	4
84	A particle model with extra dimensions from coadjoint Poincaré symmetry. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
85	Instant and Front Form realizations for N relativistic particles. Annals of Physics, 1984, 153, 389-404.	2.8	3
86	The propagator of a free relativistic particle in a generic gauge $d\lambda/d\tau=f(\lambda)$. Classical and Quantum Gravity, 1988, 5, 1663-1667.	4.0	3
87	Quantization of a higher-order derivative spinning particle. Classical and Quantum Gravity, 1991, 8, 1053-1060.	4.0	3
88	Deformed Maxwell Algebras and their Realizations. , 2009, , .		3
89	Dynamical sectors of a relativistic two particle model. Physical Review D, 2014, 89, .	4.7	3
90	Non-relativistic Bondi–Metzner–Sachs algebra. Classical and Quantum Gravity, 2017, 34, 184002.	4.0	3

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91	Contractions of the Maxwell algebra. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 395201.	2.1	3
92	A free Lie algebra approach to curvature corrections to flat space-time. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
93	Non-relativistic limits and three-dimensional coadjoint Poincaré gravity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, .	2.1	3
94	Gauge-invariant actions from constraint Hamiltonian dynamics. Physical Review D, 1987, 35, 591-595.	4.7	2
95	Covariant currents in N = 2 super-Liouville theory. Nuclear Physics B, 1993, 393, 126-148.	2.5	2
96	Addendum to "Conformal symmetry for relativistic point particles" Physical Review D, 2015, 91, .	4.7	2
97	1/cexpansion of a separable model of direct-interaction type. Physical Review D, 1985, 31, 1962-1967.	4.7	1
98	Classical motions from pseudoclassical spin-1/2particle models. Physical Review D, 1986, 34, 2298-2301.	4.7	1
99	Superconformal algebras from pseudoparticle mechanics. Nuclear Physics B, 1994, 411, 745-777.	2.5	1
100	Commutative and noncommutative Â Â 2 SYM in (2 Â 1) from wrapped D6-branes. Classical and Quantum Gravity, 2003, 20, S441-S448.	4.0	1
101	Exotic nonrelativistic string. Physical Review D, 2007, 76, .	4.7	1
102	SuperParticle realization of twisted $ mathcal{N} = 2 $ SUSY algebra. Journal of High Energy Physics, 2011, 2011, 1.	4.7	1
103	Space-time Schrödinger symmetries of a post-Galilean particle. Journal of High Energy Physics, 2020, 2020, 1.	4.7	1
104	Bargmann-Wigner method and (6s+1)-component wave equations. Physical Review D, 1980, 22, 2564-2565.	4.7	0
105	Derivation of the gauge-invariant action for open and closed free bosonic string field theories. Physical Review D, 1987, 35, 2480-2489.	4.7	0
106	Non-relativistic strings in expanding spacetime. Classical and Quantum Gravity, 2008, 25, 125017.	4.0	0
107	Non-central extensions of (Super) Poincaré algebra and (Susy) Electromagnetic Backgrounds. Springer Proceedings in Physics, 2011, , 91-97.	0.2	0