

Joaquim Gomis Torne

List of Publications by Year in descending order

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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	Non-relativistic and Carrollian limits of Jackiw-Teitelboim gravity. Journal of High Energy Physics, 2021, 2021, 1.	4.7	30
2	Colourful Poincaré symmetry, gravity and particle actions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
3	Worldline description of fractons. Physical Review D, 2021, 104, .	4.7	10
4	A free Lie algebra approach to curvature corrections to flat space-time. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
5	A particle model with extra dimensions from coadjoint Poincaré symmetry. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
6	Space-time Schrödinger symmetries of a post-Galilean particle. Journal of High Energy Physics, 2020, 2020, 1.	4.7	1
7	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
8	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
9	Newton-Hooke/Carrollian expansions of (A)dS and Chern-Simons gravity. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
10	Symmetries of Post-Galilean Expansions. Physical Review Letters, 2020, 124, 081602.	7.8	11
11	Nonrelativistic k-contractions of the coadjoint Poincaré algebra. International Journal of Modern Physics A, 2020, 35, 2050009.	1.5	7
12	Symmetries of M-theory and free Lie superalgebras. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
13	Contractions of the Maxwell algebra. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 395201.	2.1	3
14	Galilean free Lie algebras. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
15	Lie symmetries of nonrelativistic and relativistic motions. Physical Review D, 2019, 99, .	4.7	5
16	Vector SUSY models with Carroll or Galilei invariance. Physical Review D, 2019, 99, .	4.7	10
17	Stringy (Galilei) Newton-Hooke Chern-Simons gravities. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
18	Non-relativistic spinning particle in a Newton-Cartan background. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13

#	ARTICLE	IF	CITATIONS
19	Confined dynamical systems with Carroll and Galilei symmetries. Physical Review D, 2018, 98, .	4.7	23
20	Non-relativistic Maxwell Chern-Simons gravity. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
21	Non-relativistic Bondi-Metzner-Sachs algebra. Classical and Quantum Gravity, 2017, 34, 184002.	4.0	3
22	Extended Galilean symmetries of non-relativistic strings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	49
23	On free Lie algebras and particles in electro-magnetic fields. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
24	Canonical realization of $(\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle T_j \text{ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T}$	4.7	13
25	Tachyons in the Galilean limit. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
26	The Galilean superstring. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
27	Carroll versus Galilei gravity. Journal of High Energy Physics, 2017, 2017, 1.	4.7	88
28	The symmetries of the Carroll superparticle. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 185402.	2.1	14
29	Canonical realization of Bondi-Metzner-Sachs symmetry: Quadratic Casimir. Physical Review D, 2016, 93, .	4.7	7
30	Dynamics of Carroll strings. Journal of High Energy Physics, 2016, 2016, 1.	4.7	37
31	Addendum to "Conformal symmetry for relativistic point particles". Physical Review D, 2015, 91, .	4.7	2
32	Dynamics of Carroll particles. Classical and Quantum Gravity, 2014, 31, 205009.	4.0	76
33	Nonrelativistic superparticle in a curved background. Physical Review D, 2014, 90, .	4.7	11
34	Dynamical sectors of a relativistic two particle model. Physical Review D, 2014, 89, .	4.7	3
35	Conformal symmetry for relativistic point particles. Physical Review D, 2014, 90, .	4.7	8
36	Dynamical sectors for a spinning particle in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{AdS} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle$ Physical Review D, 2014, 90, .	4.7	4

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37	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
38	Stringy Newton-Cartan gravity. Classical and Quantum Gravity, 2012, 29, 235020.	4.0	104
39	Schrödinger equations for higher order nonrelativistic particles and N -Galilean conformal symmetry. Physical Review D, 2012, 85, .	4.7	56
40	Space-time transformations of the Born-Infeld gauge field of a D-brane. Physical Review D, 2011, 84, .	4.7	4
41	SuperParticle realization of twisted $\mathcal{N} = 2$ SUSY algebra. Journal of High Energy Physics, 2011, 2011, 1.	4.7	1
42	Non-central extensions of (Super) Poincaré algebra and (Susy) Electromagnetic Backgrounds. Springer Proceedings in Physics, 2011, , 91-97.	0.2	0
43	Maxwell Superalgebra and Superparticles in Constant Gauge Backgrounds. Physical Review Letters, 2010, 104, 090401.	7.8	62
44	Infinite sequence of Poincaré group extensions: structure and dynamics. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 015201.	2.1	40
45	Deforming the Maxwell-Sim algebra. Physical Review D, 2010, 82, .	4.7	26
46	Deformations of Maxwell superalgebras and their applications. Journal of Mathematical Physics, 2010, 51, .	1.1	32
47	Deformed Maxwell Algebras and their Realizations. , 2009, , .		3
48	Vector supersymmetry: Casimir operators and contraction from $\tilde{Sp}(3,2 2)$. Journal of High Energy Physics, 2009, 2009, 035-035.	4.7	4
49	Deformations of Maxwell algebra and their dynamical realizations. Journal of High Energy Physics, 2009, 2009, 039-039.	4.7	47
50	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
51	Anisotropic harmonic oscillator, non-commutative Landau problem and exotic Newton-Hooke symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 906-912.	4.1	66
52	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
53	Non-relativistic strings in expanding spacetime. Classical and Quantum Gravity, 2008, 25, 125017.	4.0	0
54	Kac-Moody spectrum of (half-)maximal supergravities. Journal of High Energy Physics, 2008, 2008, 069-069.	4.7	54

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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	Non-propagating degrees of freedom in supergravity and very extended G ₂ . Journal of High Energy Physics, 2007, 2007, 038-038.	4.7	12
57	General very special relativity is Finsler geometry. Physical Review D, 2007, 76, .	4.7	198
58	Exotic nonrelativistic string. Physical Review D, 2007, 76, .	4.7	1
59	(2+1)D exotic Newton-Hooke symmetry, duality and projective phase. Annals of Physics, 2007, 322, 1556-1586.	2.8	68
60	Newton-Hooke algebras, nonrelativistic branes, and generalized pp-wave metrics. Physical Review D, 2006, 73, .	4.7	68
61	The construction of brane and superbrane actions using nonlinear realizations. Classical and Quantum Gravity, 2006, 23, 7369-7381.	4.0	200
62	Script N=4 superconformal mechanics as a non linear realization. Journal of High Energy Physics, 2006, 2006, 068-068.	4.7	15
63	Diffeomorphism, kappa transformations and the theory of non-linear realisations. Journal of High Energy Physics, 2006, 2006, 015-015.	4.7	17
64	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
65	Non relativistic Dpbranes. Journal of High Energy Physics, 2005, 2005, 007-007.	4.7	21
66	Non-relativistic superstrings: a new soluble sector of AdS ₅ × S ⁵ . Journal of High Energy Physics, 2005, 2005, 024-024.	4.7	125
67	Non-Relativistic Superbranes. Journal of High Energy Physics, 2004, 2004, 051-051.	4.7	55
68	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
69	Physical degrees of freedom of non-local theories. Nuclear Physics B, 2004, 696, 263-291.	2.5	32
70	Commutative and noncommutative $\hat{A} \hat{A}^2$ SYM in (2, 1) from wrapped D6-branes. Classical and Quantum Gravity, 2003, 20, S441-S448.	4.0	1
71	Supertubes in reduced holonomy manifolds. Classical and Quantum Gravity, 2003, 20, 3113-3127.	4.0	4
72	Supergravity Duals of Noncommutative Wrapped D6 Branes and Supersymmetry without Supersymmetry. Journal of High Energy Physics, 2002, 2002, 016-016.	4.7	10

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73	D6-branes wrapping Kähler four-cycles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 524, 170-176.	4.1	24
74	Hamiltonian formalism for space-time noncommutative theories. Physical Review D, 2001, 63, .	4.7	77
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	BPS bounds for worldvolume branes. Journal of High Energy Physics, 1998, 1998, 003-003.	4.7	108
77	D-String on Near Horizon Geometries and Infinite Conformal Symmetry. Physical Review Letters, 1998, 81, 1770-1773.	7.8	9
78	Are nonrenormalizable gauge theories renormalizable?. Nuclear Physics B, 1996, 469, 473-487.	2.5	128
79	Particle Mechanics Models with W-Symmetries. Annals of Physics, 1995, 244, 67-100.	2.8	6
80	Antibracket, antifields and gauge-theory quantization. Physics Reports, 1995, 259, 1-145.	25.6	308
81	Anomalies and Wess-Zumino terms in an extended, regularized field-antifield formalism. Nuclear Physics B, 1994, 431, 378-412.	2.5	13
82	Superconformal algebras from pseudoparticle mechanics. Nuclear Physics B, 1994, 411, 745-777.	2.5	1
83	Field-antifield formalism for anomalous gauge theories. Nuclear Physics B, 1993, 395, 288-324.	2.5	23
84	Covariant currents in N = 2 super-Liouville theory. Nuclear Physics B, 1993, 393, 126-148.	2.5	2
85	Perturbation theory and locality in the field-antifield formalism. Journal of Mathematical Physics, 1993, 34, 2132-2152.	1.1	4
86	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
87	Unitarity and the field-antifield formalism. Nuclear Physics B, 1992, 368, 311-337.	2.5	8
88	Quantization of a higher-order derivative spinning particle. Classical and Quantum Gravity, 1991, 8, 1053-1060.	4.0	3
89	Existence theorem for gauge symmetries in Hamiltonian constrained systems. Classical and Quantum Gravity, 1990, 7, 1089-1096.	4.0	38
90	The anti-BRST symmetry in the field-antifield formalism. Nuclear Physics B, 1990, 343, 152-166.	2.5	19

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91	BRST-invariant path integral for a spinning relativistic particle. Physical Review D, 1989, 40, 1950-1955.	4.7	8
92	Some aspects of the $N=2$ superstring. Physical Review D, 1989, 40, 408-414.	4.7	6
93	Lagrangian and Hamiltonian BRST structures of the antisymmetric tensor gauge theory. Physical Review D, 1988, 38, 1169-1175.	4.7	15
94	The propagator of a free relativistic particle in a generic gauge $d\hat{\mu}/d\hat{\nu} = f(\hat{\mu})$. Classical and Quantum Gravity, 1988, 5, 1663-1667.	4.0	3
95	Gauge-invariant actions from constraint Hamiltonian dynamics. Physical Review D, 1987, 35, 591-595.	4.7	2
96	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
97	To Construct Gauge Transformations from Singular Lagrangians. Europhysics Letters, 1986, 2, 187-194.	2.0	13
98	Pseudoclassical description for a nonrelativistic spinning particle. I. The Levy-Leblond equation. Physical Review D, 1986, 33, 2212-2219.	4.7	17
99	Hamiltonian and Lagrangian constraints of the bosonic string. Physical Review D, 1986, 34, 2430-2432.	4.7	6
100	Classical motions from pseudoclassical spin-1/2 particle models. Physical Review D, 1986, 34, 2298-2301.	4.7	1
101	Pseudoclassical model of a particle with arbitrary spin. Physical Review D, 1986, 34, 1072-1075.	4.7	6
102	$1/c$ expansion of a separable model of direct-interaction type. Physical Review D, 1985, 31, 1962-1967.	4.7	1
103	Pseudoclassical description of a relativistic spinning particle. Physical Review D, 1985, 32, 1985-1992.	4.7	8
104	Instant and Front Form realizations for N relativistic particles. Annals of Physics, 1984, 153, 389-404.	2.8	3
105	Bargmann-Wigner method and $(6s+1)$ -component wave equations. Physical Review D, 1980, 22, 2564-2565.	4.7	0
106	Poincaré-Cartan integral invariant for constrained systems. Annals of Physics, 1979, 118, 476-489.	2.8	10
107	Poincaré transformations and Galilei transformations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 66, 463-465.	2.1	14