Marcelo Gomes

List of Publications by Year
in descending order

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132	1,987	257450	330143
papers	citations	24 h-index	37 g-index

133	133	133	505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aetherlike Lorentz-breaking actions. Physical Review D, 2010, 81, .	4.7	124
2	A consistent noncommutative field theory: the Wessâ€“Zumino model. Nuclear Physics B, 2000, 587, 299-310.	2.5	83
3	On the origin of anomalies in the quantum non-local charge for the generalized non-linear sigma models. Nuclear Physics B, 1982, 210, 181-192.	2.5	63
4	Gauge structure, anomalies, and mass generation in a three-dimensional Thirring model. Physical Review D, 1991, 43, 3516-3523.	4.7	59
5	Lorentz violation in the linearized gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 652, 174-180.	4.1	56
6	Asymptotic scale invariance in a massive Thirring model. Nuclear Physics B, 1972, 45, 252-266.	2.5	53
7	Induction of the four-dimensional Lorentz-breaking non-Abelian Chern-Simons action. Physical Review D, 2007, 76, .	4.7	53
8	Lorentz violation bounds on Bhabha scattering. Physical Review D, 2012, 86, .	4.7	52
9	Finite-size effects on the phase structure of the Nambuâ€“Jona-Lasinio model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 551-562.	4.1	50
10	Position-dependent noncommutativity in quantum mechanics. Physical Review D, 2009, 79, .	4.7	46
11	On the equivalence of the self-dual and Maxwell-Chern-Simons models coupled to fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 137-141.	4.1	38
12	Generalization of the momentum-space subtraction procedure for renormalized perturbation theory. Communications in Mathematical Physics, 1974, 39, 81-90.	2.2	36
13	Anomaly in the nonlocal quantum charge of theCPnâ^'1model. Physical Review D, 1981, 23, 1800-1805.	4.7	36
14	Higher spatial derivative field theories. Physical Review D, 2012, 85, .	4.7	33
15	Effective potential for Horava-Lifshitz-like theories. Physical Review D, 2012, 85, .	4.7	33
16	Chiral Bosonization. Physical Review Letters, 1988, 60, 1913-1915.	7.8	32
17	Higher-derivative supersymmetric gauge theory. Physical Review D, 2011, 84, .	4.7	32
18	Noncommutativity due to spin. Physical Review D, 2010, 81, .	4.7	31

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19	The three-dimensional noncommutative nonlinear sigma model in superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 119-126.	4.1	30
20	Dynamical parity violation and the Chern-Simons term. Physical Review D, 1990, 41, 1363-1366.	4.7	29
21	THE NONCOMMUTATIVE SUPERSYMMETRIC NONLINEAR SIGMA MODEL. International Journal of Modern Physics A, 2002, 17, 1503-1516.	1.5	28
22	Towards a consistent noncommutative supersymmetric Yang-Mills theory: Superfield covariant analysis. Physical Review D, 2004, 70, .	4.7	25
23	On the superfield effective potential in three dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 500-503.	4.1	25
24	Ambiguities in the effective action in Lorentz-violating gravity. Physical Review D, 2008, 78, .	4.7	24
25	Ward identities in Lifshitz-like field theories. Physical Review D, 2012, 85, .	4.7	24
26	Nonlocal charge of theCPnâ^'1model and its supersymmetric extension to all orders. Physical Review D, 1983, 27, 825-836.	4.7	22
27	Anomaly cancellations in the supersymmetricCPnâ^'1model. Physical Review D, 1982, 25, 452-460.	4.7	21
28	Dynamical breakdown of symmetry in a (2+1)-dimensional model containing the Chern-Simons field. Physical Review D, 2004, 69, .	4.7	20
29	On the finiteness of noncommutative supersymmetric QED3 in the covariant superfield formulation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 577, 83-92.	4.1	19
30	Superfield covariant analysis of the divergence structure of noncommutative supersymmetricQED4. Physical Review D, 2004, 69, .	4.7	19
31	On the effective potential in higher-derivatives superfield theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 682, 229-234.	4.1	19
32	Coleman-Weinberg mechanism in a three-dimensional supersymmetric Chern-Simons-matter model. Physical Review D, 2010, 82, .	4.7	19
33	Dynamics of a Dirac fermion in the presence of spin noncommutativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1475-1480.	4.1	19
34	Three-dimensional nonanticommutative superspace. Physical Review D, 2006, 74, .	4.7	18
35	Superfield effective action in the noncommutative Wessâ€“Zumino model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 191-202.	4.1	17
36	Attractive forces between electrons in (2+1)-dimensional QED. Physical Review Letters, 1992, 69, 2623-2626.	7.8	16

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37	Effective superpotential in the supersymmetric Chern-Simons theory with matter. Physical Review D, 2013, 87, .	4.7	16
38	Effective potential, Horava-Lifshitz-like theories, and finite temperature. Physical Review D, 2014, 89, .	4.7	16
39	Noncommutative correction to Aharonov-Bohm scattering: A field theory approach. Physical Review D, 2004, 70, .	4.7	15
40	Scattering of spin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math>particles by the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math>dimensional noncommutative Aharonov-Bohm potential. Physical Review D, 2007, 76, .	4.7	15
41	Spontaneous gauge symmetry breaking in a supersymmetric Chern-Simons model. Physical Review D, 2007, 76, .	4.7	15
42	Dynamical Lorentz andCPTsymmetry breaking in a 4D four-fermion model. Physical Review D, 2008, 77, .	4.7	15
43	Chiral bosons through linear constraints. Physical Review D, 1992, 45, R3329-R3331.	4.7	14
44	The fermion-fermion effective potential in the Maxwell-Chern-Simons theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 357-362.	4.1	14
45	Spontaneous symmetry breaking in noncommutative field theories. Physical Review D, 2003, 67, .	4.7	14
46	Free energy of Lorentz-violating QED at high temperature. Physical Review D, 2010, 81, .	4.7	14
47	Competing interactions and the Lifshitz-type nonlinear sigma model. Physical Review D, 2013, 88, .	4.7	14
48	Comment on "New approach to the renormalization group". Physical Review D, 1974, 10, 3525-3531.	4.7	13
49	The Low Energy Limit of the Noncommutative Wess-Zumino Model. Journal of High Energy Physics, 2002, 2002, 040-040.	4.7	13
50	Dynamical Lorentz symmetry breaking in 3D and charge fractionalization. Physical Review D, 2009, 79, .	4.7	13
51	Chern-Simons terms in Lifshitz-like quantum electrodynamics. Physical Review D, 2013, 88, .	4.7	13
52	Renormalization of the band gap in 2D materials through the competition between electromagnetic and four-fermion interactions in large<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>expansion. Physical Review D, 2020, 102, .	4.7	12
53	Relativistic corrections to the Aharonov-Bohm scattering. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 373-382.	2.1	11
54	Coupling of fermions to the three-dimensional noncommutativeCPNâˆ’1model: Minimal and supersymmetric extensions. Physical Review D, 2004, 69, .	4.7	11

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55	Dynamical noncommutativity. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 285301.	2.1	11
56	Generic higher-derivative<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">N</mml:mi><mml:mo>=</mml:mo><mml:mn>2</mml:mn></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:math>gauge theory. Physical Review D, 2014, 89, .	4.7	11
57	Linear Relations Among Normal-Product Fields. Physical Review D, 1973, 7, 550-554.	4.7	10
58	The non-compact sigma model and dynamical mass generation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 145, 235-238.	4.1	10
59	Self-dual fields and the Thirring model. Physical Review D, 1988, 38, 1344-1345.	4.7	10
60	On the consistency of the three-dimensional noncommutative supersymmetric Yangâ€“Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 601, 88-92.	4.1	10
61	Duality of three-dimensional superfield theories. Physical Review D, 2006, 73, .	4.7	10
62	Finiteness of the noncommutative supersymmetric Maxwell-Chern-Simons theory. Physical Review D, 2008, 77, .	4.7	10
63	Zero-mass limit and induced interactions in a two-dimensional derivative-coupling model. Physical Review D, 1979, 19, 1144-1152.	4.7	9
64	Mass perturbation around the exact solution of a two-dimensional field-theoretical model. Physical Review D, 1979, 19, 1791-1797.	4.7	9
65	Self-dual fields and causality. Physical Review D, 1989, 39, 3792-3794.	4.7	9
66	Nonrelativistic limit of the scattering of spin-12particles interacting with a Chern-Simons field. Physical Review D, 1998, 57, 3579-3584.	4.7	9
67	Renormalization group study of the Chern-Simons field coupled to scalar matter in a modified BPHZ subtraction scheme. Physical Review D, 2000, 62, .	4.7	9
68	Consistent interactions of the2+1dimensional noncommutative Chern-Simons field. Physical Review D, 2005, 71, .	4.7	9
69	Noncommutative field theory: Nonrelativistic fermionic field coupled to the Chern-Simons field in2+1dimensions. Physical Review D, 2005, 71, .	4.7	9
70	Lorentz symmetry breaking in the noncommutative Wess-Zumino model: One loop corrections. Physical Review D, 2006, 73, .	4.7	9
71	The three-dimensional noncommutative Grossâ€“Neveu model. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 3633-3641.	2.1	9
72	Perturbative finiteness of three-dimensional supersymmetric QED to all orders. Physical Review D, 2008, 77, .	4.7	9

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73	On the one-loop effective potential in the higher-derivative four-dimensional chiral superfield theory with a nonconventional kinetic term. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 247-252.	4.1	9
74	Duality symmetry in the Schwarz-Sen model. Physical Review D, 1997, 56, 6615-6618.	4.7	8
75	Renormalization group study of the(Ï†*Ï†)3model coupled to a Chern-Simons field. Physical Review D, 2000, 61, .	4.7	8
76	On duality of the noncommutative supersymmetric Maxwellâ€“Chernâ€“Simons theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 91-94.	4.1	8
77	Fourth order spatial derivative gravity. Physical Review D, 2011, 84, .	4.7	8
78	Horava-Lifshitz-like extensions of supersymmetric theories. Physical Review D, 2014, 90, .	4.7	8
79	One-loop corrections in the Horava-Lifshitz-like QED. Physical Review D, 2015, 92, .	4.7	8
80	On the radiative corrections in the Horavaâ€“Lifshitz z = 2 QED. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 277-281.	4.1	8
81	Equivalence between the Thirring model and a derivative-coupling model. Physical Review D, 1986, 34, 3916-3919.	4.7	7
82	Mass perturbation in the Thirring model. Physical Review D, 1986, 34, 504-512.	4.7	7
83	ON THE NONRELATIVISTIC LIMIT OF THE Ï†4 THEORY IN 2+1 DIMENSIONS. Modern Physics Letters A, 1996, 11, 2825-2836.	1.2	7
84	Coulomb Gauge Quantization and Renormalization of the Chernâ€“Simons Theory Coupled to Fermions. International Journal of Modern Physics A, 1997, 12, 2889-2901.	1.5	7
85	NONRELATIVISTIC LIMIT OF THE SCALAR CHERNâ€“SIMONS THEORY AND THE AHARONOVâ€“BOHM SCATTERING. International Journal of Modern Physics A, 1998, 13, 3157-3180.	1.5	7
86	Dynamical gauge boson in the SU(N,1)-typeÏƒmodel. Physical Review Letters, 1987, 58, 2390-2393.	7.8	6
87	On the quantization of chiral bosonic particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 218, 63-66.	4.1	6
88	Low energy limit of the Chern-Simons theory coupled to fermions. Physical Review D, 1997, 56, 3623-3630.	4.7	6
89	Perturbative Gross-Neveu model coupled to a Chern-Simons field: A renormalization group study. Physical Review D, 1998, 59, .	4.7	6
90	Four-fermion field theories and the Chern-Simons field: A renormalization group study. Physical Review D, 1999, 60, .	4.7	6

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91	Supersymmetric non-Abelian non-commutative Chernâ€“Simons theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 638, 275-282.	4.1	6
92	All-loop finiteness of the two-dimensional noncommutative supersymmetric gauge theory. Europhysics Letters, 2012, 98, 21002.	2.0	6
93	Lorentz breaking supersymmetry and Horava-Lifshitz-like models. Physical Review D, 2015, 92, .	4.7	6
94	Low-energy Lorentz invariance in Lifshitz nonlinear sigma models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
95	Girottiet al.t/Preply. Physical Review Letters, 1993, 71, 203-203.	7.8	5
96	Non-Abelian Aharonov-Bohm scattering of spinless particles. Physical Review D, 1999, 59, .	4.7	5
97	(2+1)-dimensional noncommutativeCPNâˆ’1model. Physical Review D, 2004, 69, .	4.7	5
98	Slavnov-Taylor identities for noncommutative<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>QED</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review D, 2010, 81, .	4.7	5
99	Absence of spontaneous chiral symmetry breaking and the1Nexpansion in two dimensions in an exactly soluble model. Physical Review D, 1979, 20, 895-896.	4.7	4
100	Remarks on noncompactÏƒmodels. Physical Review D, 1988, 38, 706-709.	4.7	4
101	On the convergence of perturbation series: theS matrix of the non linear sigma model. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1989, 42, 649-652.	1.5	4
102	1Nexpansion of the nonlinearÏƒmodel and its renormalization through stochastic quantization. Physical Review D, 1992, 46, 2617-2627.	4.7	4
103	Supersymmetric extension of the quantum spherical model. Physical Review E, 2012, 85, 061109.	2.1	4
104	Superfield effective potential for the supersymmetric topologically massive gauge theory in four dimensions. Physical Review D, 2015, 91, .	4.7	4
105	One-loop corrections in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>z</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:math> Lifshitz extension of QED. Physical Review D, 2018, 98, .	4.7	4
106	1/N expansion for Horavaâ€“Lifshitz like four-fermion models. European Physical Journal C, 2020, 80, 1.	3.9	4
107	Influence of the four-fermion interactions in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ET Q q 1 1 0.784314 g massive electron system. Physical Review D, 2021, 103, .	4.0	
108	On an infra-red finite normal-product formalism. Il Nuovo Cimento A, 1975, 25, 616-628.	0.2	3

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109	Gauge-invariant subtraction scheme for massive quantum electrodynamics. Physical Review D, 1978, 18, 3634-3638.	4.7	3
110	Remarks on the algebra for higher nonlocal charges. Physical Review D, 1983, 28, 2683-2685.	4.7	3
111	The Schwinger functions of a rational interaction: Local existence of the Borel transform. Journal of Mathematical Physics, 1989, 30, 1007-1008.	1.1	3
112	Equivalence between supersymmetric self-dual and Maxwellâ€“Chernâ€“Simons models coupled to a matter spinor superfield. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 233-239.	4.1	3
113	Stochastic quantization of the spherical model and supersymmetry. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09018.	2.3	3
114	UV completion of five-dimensional scalar QED and Lorentz symmetry. Physical Review D, 2017, 96, .	4.7	3
115	Even orthogonal and symplectic sigma models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 137, 197-200.	4.1	2
116	THE GAUSS-BONNET IDENTITY IN FOURTH ORDER GRAVITY. Modern Physics Letters A, 1993, 08, 1977-1982.	1.2	2
117	Radiative corrections to the Aharonov-Bohm scattering. Physical Review D, 1999, 61, .	4.7	2
118	Relativistic scalar Aharonov-Bohm scattering. Journal of Physics A, 2000, 33, 5521-5529.	1.6	2
119	Radiative corrections to the Chernâ€“Simons term at finite temperature in the noncommutative Chernâ€“Simonsâ€“Higgs model. Journal of Physics A, 2004, 37, 9989-10005.	1.6	2
120	Anomaly cancellation in three-dimensional noncommutative gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 656, 145-151.	4.1	2
121	Braneworlds scenarios in a gravity model with higher order spatial three-curvature terms. European Physical Journal C, 2013, 73, 1.	3.9	2
122	Remarks on a Lorentz-breaking 4D chiral gauge theory. Physical Review D, 2016, 93, .	4.7	2
123	Absence of induced interaction terms in the Federbush model. Physical Review D, 1981, 23, 1764-1770.	4.7	1
124	Weyl fields, quantum integrability and conformal invariant field theories. Nuclear Physics B, 1988, 295, 139-152.	2.5	1
125	INFRARED STRUCTURE OF (2 + 1)-DIMENSIONAL QUANTUM ELECTRODYNAMICS. Modern Physics Letters A, 1994, 09, 2699-2704.	1.2	1
126	Spin-1 massive particles coupled to a Chern-Simons field. Physical Review D, 1999, 60, .	4.7	1

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127	Non-Abelian Aharonov-Bohm scattering of spin 1/2 particles. Physical Review D, 2000, 62, .	4.7	1
128	Borel-Leroy summability of a nonpolynomial potential. Reports on Mathematical Physics, 2008, 61, 401-415.	0.8	1
129	Slavnov-Taylor identities for the2+1dimensional noncommutativeCPNâˆ'1model. Physical Review D, 2010, 82, .	4.7	1
130	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>N</mml:mi></mml:math>expansion in noncommutative quantum mechanics. Physical Review D, 2010, 82, .	4.7	1
131	Quantum integrability and Kac-Moody algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 207, 305-308.	4.1	0
132	Superconformal invariant non-linear Ïƒ-models from the bosonic ones. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 538-540.	4.1	0