

# Mario Novello

## List of Publications by Year in descending order

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69  
papers

2,089  
citations

516710

16  
h-index

243625

44  
g-index

70  
all docs

70  
docs citations

70  
times ranked

945  
citing authors

#	ARTICLE	IF	CITATIONS
1	From weak interaction to gravity. International Journal of Modern Physics A, 2021, 36, 2150051.	1.5	2
2	Quantum e cosmos (Quantum and cosmos). Estudos Da Língua(gem), 2021, 19, 163-183.	0.0	0
3	Beyond the Equivalence Principle: Gravitational Magnetic Monopoles. Gravitation and Cosmology, 2021, 27, 221-225.	1.1	1
4	The Cosmological Constant and a Scalar Field Coupled non Minimally to Gravity. International Journal of Theoretical Physics, 2020, 59, 1-9.	1.2	8
5	Is the electromagnetic field responsible for the cosmic acceleration in late times?. International Journal of Modern Physics A, 2019, 34, 1950083.	1.5	1
6	Gravitational baryogenesis without CPT violation. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 076-076.	5.4	9
7	How can the neutrino interact with the electromagnetic field?. Chinese Physics C, 2018, 42, 013102.	3.7	0
8	Repulsive gravity induced by a conformally coupled scalar field implies a bouncing radiation-dominated universe. General Relativity and Gravitation, 2017, 49, 1.	2.0	2
9	The cosmological origins of nonlinear electrodynamics. Gravitation and Cosmology, 2017, 23, 128-130.	1.1	1
10	Geometric scalar theory of gravity beyond spherical symmetry. Physical Review D, 2017, 95, .	4.7	0
11	Spin-2 fields from torsion: Dark energy and bouncing cosmology. Gravitation and Cosmology, 2016, 22, 1-9.	1.1	6
12	More about scalar gravity. Physical Review D, 2016, 93, .	4.7	7
13	Cosmology of a Heisenberg fluid. General Relativity and Gravitation, 2016, 48, 1.	2.0	3
14	Metric Relativity and the Dynamical Bridge: Highlights of Riemannian Geometry in Physics. Brazilian Journal of Physics, 2015, 45, 756-805.	1.4	5
15	A proposal for the origin of the anomalous magnetic moment. International Journal of Modern Physics A, 2014, 29, 1450075.	1.5	10
16	Chiral symmetry breaking as a geometrical process. International Journal of Modern Physics A, 2014, 29, 1450145.	1.5	8
17	Cosmology in geometric scalar gravity. Physical Review D, 2014, 90, .	4.7	11
18	The Quasi-Maxwellian Equations of General Relativity: Applications to Perturbation Theory. Brazilian Journal of Physics, 2014, 44, 832-894.	1.4	2

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19	Analogue black holes for light rays in static dielectrics. <i>Classical and Quantum Gravity</i> , 2014, 31, 145007.	4.0	2
20	Geometric scalar theory of gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 014-014.	5.4	25
21	Dragged metrics. <i>General Relativity and Gravitation</i> , 2013, 45, 1005-1019.	2.0	10
22	Gordon metric revisited. <i>Physical Review D</i> , 2012, 86, .	4.7	34
23	What is the origin of the mass of the Higgs boson?. <i>Physical Review D</i> , 2012, 86, .	4.7	5
24	Extended Born-Infeld theory and the bouncing magnetic universe. <i>Physical Review D</i> , 2012, 85, .	4.7	6
25	Reproducing gravity through spinor fields. <i>Gravitation and Cosmology</i> , 2011, 17, 224-229.	1.1	0
26	Gaussian coordinate systems for the Kerr metric. <i>Gravitation and Cosmology</i> , 2011, 17, 230-241.	1.1	2
27	Hidden geometries in nonlinear theories: a novel aspect of analogue gravity. <i>Classical and Quantum Gravity</i> , 2011, 28, 245008.	4.0	15
28	The gravitational mechanism to generate mass. <i>Classical and Quantum Gravity</i> , 2011, 28, 035003.	4.0	5
29	Beyond analog gravity: the case of exceptional dynamics. <i>Classical and Quantum Gravity</i> , 2011, 28, 145022.	4.0	15
30	ON A GEOMETRICAL DESCRIPTION OF QUANTUM MECHANICS. <i>International Journal of Geometric Methods in Modern Physics</i> , 2011, 08, 87-98.	2.0	20
31	THE COSMOLOGICAL ORIGIN OF THE NAMBU-JONA-LASINIO MODEL. <i>International Journal of Modern Physics A</i> , 2011, 26, 3781-3787.	1.5	2
32	Geometrizing Relativistic Quantum Mechanics. <i>Foundations of Physics</i> , 2010, 40, 1885-1901.	1.3	12
33	THE SPECTRUM OF SCALAR FLUCTUATIONS OF A BOUNCING UNIVERSE. <i>International Journal of Modern Physics A</i> , 2010, 25, 3095-3105.	1.5	3
34	CYCLIC MAGNETIC UNIVERSE. <i>International Journal of Modern Physics A</i> , 2009, 24, 5639-5658.	1.5	14
35	Gravitational waves in singular and bouncing FLRW universes. <i>Gravitation and Cosmology</i> , 2009, 15, 191-198.	1.1	0
36	Bouncing cosmologies. <i>Physics Reports</i> , 2008, 463, 127-213.	25.6	598

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37	Cosmological stability of Weyl conformal tensor. <i>Gravitation and Cosmology</i> , 2008, 14, 321-326.	1.1	1
38	Constructing Dirac linear fermions in terms of non-linear Heisenberg spinors. <i>Europhysics Letters</i> , 2007, 80, 41001.	2.0	7
39	Cosmological effects of nonlinear electrodynamics. <i>Classical and Quantum Gravity</i> , 2007, 24, 3021-3036.	4.0	86
40	A spinor theory of gravity and the cosmological framework. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 018-018.	5.4	7
41	Toy model of a fake inflation. <i>Physical Review D</i> , 2006, 73, .	4.7	4
42	Nonlinear electrodynamics and the acceleration of the Universe. <i>Physical Review D</i> , 2004, 69, .	4.7	152
43	Analogue black holes in flowing dielectrics. <i>Classical and Quantum Gravity</i> , 2003, 20, 859-871.	4.0	42
44	Nonlinear electrodynamics and FRW cosmology. <i>Physical Review D</i> , 2002, 65, .	4.7	121
45	Spin-2 field theory in curved spacetime in the Fierz representation. <i>Classical and Quantum Gravity</i> , 2002, 19, 5335-5351.	4.0	16
46	Artificial Black Holes. , 2002, , .		113
47	Effective electromagnetic geometry. <i>Physical Review D</i> , 2001, 63, .	4.7	45
48	Light propagation in non-linear electrodynamics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 482, 134-140.	4.1	100
49	The radiation era in scalar-tensor cosmology. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 472, 27-32.	4.1	4
50	DYNAMICAL BOSON FIELD IN THE NONLINEAR SPINOR THEORY. <i>International Journal of Modern Physics A</i> , 2000, 15, 2255-2268.	1.5	3
51	Geometrical aspects of light propagation in nonlinear electrodynamics. <i>Physical Review D</i> , 2000, 61, .	4.7	193
52	Minimal closed set of observables in the theory of cosmological perturbations. IV. The anisotropic paradigm. <i>Physical Review D</i> , 2000, 61, .	4.7	2
53	FLUCTUATIONS IN A PRIMORDIAL ANISOTROPIC ERA. <i>International Journal of Modern Physics A</i> , 1998, 13, 363-379.	1.5	3
54	Minimal closed set of observables in the theory of cosmological perturbations. III. Quantum treatment. <i>Physical Review D</i> , 1996, 54, 2578-2588.	4.7	7

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55	Minimal closed set of observables in the theory of cosmological perturbations. II. Vorticity and gravitational waves. Physical Review D, 1995, 52, 730-742.	4.7	13
56	Minimal closed set of observables in the theory of cosmological perturbations. Physical Review D, 1995, 51, 450-461.	4.7	19
57	Synchronized frames for Gödel's universe. General Relativity and Gravitation, 1993, 25, 137-164.	2.0	14
58	BACKWARDS TIME-TRAVEL INDUCED BY COMBINED MAGNETIC AND GRAVITATIONAL FIELDS. Modern Physics Letters A, 1992, 07, 381-386.	1.2	5
59	GEOMETRIZED INSTANTONS AND THE CREATION OF THE UNIVERSE. International Journal of Modern Physics D, 1992, 01, 641-677.	2.1	68
60	Theory of Gravity in Fierz Variables (The Linear Case). , 1992, 40, 173-194.		3
61	Quantization of Spin-Two Field in Terms of Fierz Variables - The Linear Case -, 1992, 40, 195-209.		8
62	Gravitationally self-induced phase transition. Physica A: Statistical Mechanics and Its Applications, 1990, 168, 1073-1081.	2.6	8
63	The connection between general observers and Lanczos potential. General Relativity and Gravitation, 1987, 19, 1251-1265.	2.0	33
64	Geodesic motion and confinement in Gödel's universe. Physical Review D, 1983, 27, 779-788.	4.7	50
65	Cosmic repulsion. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 90, 347-348.	2.1	14
66	Nonlinear photons in the universe. Physical Review D, 1979, 20, 377-383.	4.7	88
67	Ghost basis for neutrino. Physics Letters, Section A: General, Atomic and Solid State Physics, 1976, 58, 75-76.	2.1	2
68	Neutrino cosmology. Physics Letters, Section A: General, Atomic and Solid State Physics, 1976, 56, 431-433.	2.1	4
69	Weak and Electromagnetic Forces as a Consequence of the Self-Interaction of the $\hat{F}^3$ Field. Physical Review D, 1973, 8, 2398-2400.	4.7	5