

# Mauricio Bellini

## List of Publications by Year in descending order

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109  
papers

753  
citations

623734

14  
h-index

713466

21  
g-index

110  
all docs

110  
docs citations

110  
times ranked

162  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational waves from the birth of the universe with extended General Relativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136901.	4.1	7
2	New preinflation. Physics of the Dark Universe, 2021, 31, 100773.	4.9	4
3	Quantum thermodynamics in the interior of a Schwarzschild black-hole. Physica Scripta, 2021, 96, 065304.	2.5	3
4	Ricci flow in general relativity: dynamics of gluon fields on an arbitrary curved background from unified spinor fields. Physica Scripta, 2021, 96, 065301.	2.5	4
5	Were strong inflaton field fluctuations the cause of the big bang?. International Journal of Modern Physics D, 2021, 30, .	2.1	4
6	General relativity with boundary terms: collapse without final singularity. European Physical Journal Plus, 2021, 136, 1.	2.6	1
7	Extended General Relativity: Gravitational waves from an isotropic and homogeneous collapse. Physics of the Dark Universe, 2021, 34, 100895.	4.9	12
8	Extended General Relativity: (3+1)-anyons in a preinflationary cosmological model. European Physical Journal C, 2021, 81, 1.	3.9	2
9	Waves of space-time from a collapsing compact object. Physics of the Dark Universe, 2020, 27, 100424.	4.9	1
10	Fermionic origin of dark energy in the inflationary universe from unified spinor fields. Physica Scripta, 2020, 95, 035303.	2.5	4
11	Quantum magnetic monopoles at the Planck era from unified spinor fields. Physics of the Dark Universe, 2020, 30, 100693.	4.9	2
12	Space-time waves from a collapsing universe with a gravitational attractor. Physics of the Dark Universe, 2020, 30, 100703.	4.9	0
13	Large scales space-time waves from inflation with time dependent cosmological parameter. Physics of the Dark Universe, 2020, 30, 100670.	4.9	0
14	Quantum thermodynamics in the interior of a Reissner-Nordström black-hole. Physics of the Dark Universe, 2020, 30, 100710.	4.9	2
15	Space-time waves from a collapse with a time-dependent cosmological parameter. European Physical Journal Plus, 2020, 135, 1.	2.6	1
16	Particle-antiparticle duality from an extra timelike dimension. European Physical Journal C, 2019, 79, 1.	3.9	1
17	Exponential collapse with variable time scale driven by a scalar field. Physics of the Dark Universe, 2019, 26, 100395.	4.9	0
18	Geometrization of gravito-electromagnetic interactions from boundary conditions in the variational principle. European Physical Journal C, 2019, 79, 1.	3.9	2

#	ARTICLE	IF	CITATIONS
19	Collapse driven by a scalar field without final singularity. <i>Physics of the Dark Universe</i> , 2019, 23, 100251.	4.9	3
20	Relativistic quantum geometry from a 5D geometrical vacuum: Gravitational waves from preinflation. <i>Physics of the Dark Universe</i> , 2019, 25, 100309.	4.9	4
21	Emission of primordial bosonic radiation during inflation. <i>Canadian Journal of Physics</i> , 2019, 97, 192-197.	1.1	7
22	Towards unified spinor fields: confinement of gravitons on a de Sitter background. <i>Canadian Journal of Physics</i> , 2019, 97, 1154-1160.	1.1	5
23	Inflationary expansion of the universe with variable timescale. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	8
24	The Heisenberg spinor field classification and its interplay with the Lounesto's classification. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	3
25	Large-scales solitonic back-reaction behavior in power-law inflation and its relationship with dark energy. <i>Physics of the Dark Universe</i> , 2019, 24, 100273.	4.9	1
26	Quantum thermodynamics in a static de Sitter space-time and initial state of the universe. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	1
27	Traversable wormhole magnetic monopoles from Dymnikova metric. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	8
28	Gravitons emission during pre-inflation from unified spinor fields. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	4
29	Inflationary gravitational waves from unified spinor fields. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	9
30	Gravito-magnetic monopoles in traversable wormholes from WIMT. <i>Physics of the Dark Universe</i> , 2017, 15, 47-52.	4.9	4
31	Mass density of the Earth from a gravito-electromagnetic 5D vacuum. <i>Canadian Journal of Physics</i> , 2017, 95, 1242-1245.	1.1	0
32	Pre-inflation: Origin of the Universe from a topological phase transition. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 771, 227-229.	4.1	15
33	Large scale solitonic back-reaction effects in pre-inflation. <i>Physics of the Dark Universe</i> , 2017, 17, 10-12.	4.9	2
34	Origin of time before inflation from a topological phase transition. <i>Physics of the Dark Universe</i> , 2017, 17, 22-24.	4.9	2
35	Charged and Electromagnetic Fields from Relativistic Quantum Geometry. <i>Universe</i> , 2016, 2, 13.	2.5	4
36	Absorption of charged particles in a Reissner-Nordström black-hole: entropy evolution from relativistic quantum geometry. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	3

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37	Geometric back-reaction in pre-inflation from relativistic quantum geometry. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	8
38	Gravitational waves and magnetic monopoles during inflation with Weitzenböck torsion. <i>Physics of the Dark Universe</i> , 2016, 13, 121-125.	4.9	1
39	Inflationary back-reaction effects from Relativistic Quantum Geometry. <i>Physics of the Dark Universe</i> , 2016, 11, 64-67.	4.9	11
40	Gravitational waves from a Weyl-Integrable manifold: A new formalism. <i>Physics of the Dark Universe</i> , 2016, 13, 1-6.	4.9	5
41	Towards relativistic quantum geometry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 751, 565-571.	4.1	39
42	WIMT in Gullstrand-Painlevé and Reissner-Nordström metrics: induced stable gravito-magnetic monopoles. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	6
43	Quantized gravito-magnetic charges from WIMT: cosmological consequences. <i>Canadian Journal of Physics</i> , 2015, 93, 445-448.	1.1	4
44	Inflation as a white hole explosion from a 5D vacuum. <i>Canadian Journal of Physics</i> , 2015, 93, 678-681.	1.1	0
45	Dyonic Reissner-Nordström black hole: extended Dirac quantization from 5D invariants. <i>Astrophysics and Space Science</i> , 2015, 359, 1.	1.4	1
46	Discrete modes in gravitational waves from the big-bang. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	31
47	Gravito-magnetic currents in the inflationary universe from WIMT. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	7
48	New Developments in Cosmology and Gravitation from Extended Theories of General Relativity. <i>Advances in High Energy Physics</i> , 2014, 2014, 1-1.	1.1	0
49	Perihelion advances for the orbits of Mercury, Earth, and Pluto from extended theory of general relativity (ETGR). <i>Canadian Journal of Physics</i> , 2014, 92, 1709-1713.	1.1	2
50	Present accelerated expansion of the universe from new Weyl-integrable gravity approach. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	12
51	The primordial explosion of a false white hole from a 5D vacuum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 728, 244-249.	4.1	5
52	Scalar fluctuations of the scalar metric during inflation from a non-perturbative 5D large-scale repulsive gravity model. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	1
53	Induced Matter Theory of gravity from a Weitzenböck 5D vacuum and pre-big bang collapse of the universe. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	8
54	Primordial Dark Energy from a Condensate of Spinors in a 5D Vacuum. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-7.	1.1	0

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55	INFLATIONARY DARK ENERGY FROM A CONDENSATE OF SPINORS IN A 5D VACUUM. International Journal of Modern Physics D, 2013, 22, 1342028.	2.1	1
56	Seminal magnetic fields from inflato-electromagnetic inflation. European Physical Journal C, 2012, 72, 1.	3.9	4
57	Gravitational waves during inflation from a 5D large-scale repulsive gravity model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 17-24.	4.1	4
58	Quantum origin of pre-big-bang collapse from induced matter theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 309-312.	4.1	3
59	Dirac equation in a de Sitter expansion for massive neutrinos from modern Kaluza-Klein theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 404-407.	4.1	2
60	Particles and gravitons creation after inflation from a 5D vacuum. European Physical Journal Plus, 2011, 126, 1.	2.6	1
61	Super-exponential inflation from a dynamical foliation of a 5D vacuum state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 703, 107-112.	4.1	3
62	Pre-big bang collapsing universe from modern Kaluza-Klein theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 283-286.	4.1	4
63	Dirac equation for massive neutrinos in a Schwarzschild-de Sitter spacetime from a 5D vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 535-538.	4.1	3
64	Analytical treatment of SUSY Quasi-normal modes in a non-rotating Schwarzschild black hole. European Physical Journal C, 2011, 71, 1.	3.9	2
65	Fierz-Pauli equation for massive gravitons from Induced Matter theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 183-185.	4.1	3
66	Semiclassical gravitoelectromagnetic inflation in a Lorentz gauge: Seminal inflaton fluctuations and electromagnetic fields from a 5D vacuum state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 1-7.	4.1	5
67	Primordial SdS universe from a 5D vacuum: scalar field fluctuations on Schwarzschild and Hubble horizons. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 020-020.	5.4	7
68	Coupled inflaton and electromagnetic fields from Gravitoelectromagnetic Inflation with Lorentz and Feynman gauges. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 001-001.	5.4	5
69	The seed of magnetic monopoles in the early inflationary universe from a 5D vacuum state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 143-145.	4.1	4
70	Primordial large-scale electromagnetic fields from gravitoelectromagnetic inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 152-159.	4.1	6
71	Extended general relativity: Large-scale antigravity and short-scale gravity with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \tilde{\rho} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \hat{\alpha}^2 \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle 4 \langle \text{mml:math} \rangle$ from five-dimensional vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 679, 306-310.		
72	A confirmation of agreement of different approaches for scalar gauge-invariant metric perturbations during inflation. European Physical Journal C, 2009, 60, 297.	3.9	6

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73	Passing to an effective 4D phantom cosmology from 5D vacuum theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 107-112.	4.1	3
74	Geometrical origin of entropy during inflation from the STM theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 1-3.	4.1	4
75	Inflation from the bang of a white hole induced from a 6D vacuum state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 648, 19-27.	4.1	1
76	Gravitational waves during inflation in presence of a decaying cosmological parameter from a 5D vacuum theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 343-348.	4.1	6
77	Gauge invariant metric fluctuations in the early universe from STM theory of gravity: Nonperturbative formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 652, 233-237.	4.1	1
78	Stochastic gravitoelectromagnetic inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 302-310.	4.1	17
79	Gauge-invariant metric fluctuations from NKK theory of gravity: de Sitter expansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 6-12.	4.1	10
80	Decaying cosmological parameter in the early universe from NKK theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 610-616.	4.1	13
81	Inflaton and metric fluctuations in the early universe from a 5D vacuum state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 635, 243-246.	4.1	5
82	Cosmological expansion governed by a scalar field from a 5D vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 637, 16-20.	4.1	1
83	Gravitoelectromagnetic inflation from a 5D vacuum state: A new formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 638, 314-319.	4.1	35
84	Scalar metric fluctuations in space-time matter inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 126-134.	4.1	2
85	Quintessential inflation from a variable cosmological constant in a 5D vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 125-129.	4.1	11
86	Space-time matter inflation. Journal of Mathematical Physics, 2006, 47, 042502.	1.1	9
87	De Sitter inflationary expansion from a noncompact KK theory: a nonperturbative quantum (scalar) field formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 609, 187-193.	4.1	20
88	Noncompact KK theory of gravity: Stochastic treatment for a nonperturbative inflaton field in a de Sitter expansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 619, 208-218.	4.1	16
89	Single field inflationary models with non-compact Kaluza-Klein theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 581, 1-8.	4.1	36
90	Noncompact Kaluza-Klein theory and inflationary cosmology: a complete formalism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 596, 116-122.	4.1	20

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91	Fresh Inflation from Five-Dimensional Vacuum State. <i>General Relativity and Gravitation</i> , 2003, 35, 35-41.	2.0	1
92	Inflationary cosmology from STM theory of gravity. <i>Nuclear Physics B</i> , 2003, 660, 389-400.	2.5	34
93	Fresh inflation with increasing cosmological parameter. <i>Physical Review D</i> , 2003, 67, .	4.7	7
94	Letter: Thermodynamical Properties of Metric Fluctuations During Inflation. <i>General Relativity and Gravitation</i> , 2002, 34, 1483-1489.	2.0	2
95	Fresh Inflation with Nonminimally Coupled Inflaton Field. <i>General Relativity and Gravitation</i> , 2002, 34, 1953-1961.	2.0	6
96	Baryogenesis in Fresh Inflation. <i>General Relativity and Gravitation</i> , 2002, 34, 2127-2134.	2.0	0
97	Coarse-grained field wave function in stochastic inflation. <i>Nuclear Physics B</i> , 2001, 604, 441-451.	2.5	5
98	LETTER: Warm Inflation: Towards a Realistic COBE Data Power Spectrum for Matter and Metric Thermal Coupled Fluctuations. <i>General Relativity and Gravitation</i> , 2001, 33, 2081-2091.	2.0	0
99	Warm Inflation and Scalar Perturbations of the Metric. <i>General Relativity and Gravitation</i> , 2001, 33, 127-143.	2.0	2
100	Decoherence of gauge-invariant metric fluctuations during inflation. <i>Physical Review D</i> , 2001, 64, .	4.7	5
101	Fresh inflation and decoherence of super Hubble fluctuations. <i>Physical Review D</i> , 2001, 64, .	4.7	7
102	Inflation and nonequilibrium thermodynamics for the fluctuations in the infrared sector. <i>Physical Review D</i> , 2001, 63, .	4.7	0
103	Fresh inflation: A warm inflationary model from a zero temperature initial state. <i>Physical Review D</i> , 2001, 63, .	4.7	19
104	Warm inflation with backreaction: a stochastic approach. <i>Classical and Quantum Gravity</i> , 2000, 17, 145-151.	4.0	8
105	Gauge-invariant fluctuations of the metric in stochastic inflation. <i>Physical Review D</i> , 2000, 61, .	4.7	6
106	Towards a theory of warm inflation of the Universe. <i>Classical and Quantum Gravity</i> , 1999, 16, 2393-2402.	4.0	18
107	Primordial fluctuations in the warm inflation scenario with a more realistic coarse-grained field. <i>Nuclear Physics B</i> , 1999, 563, 245-258.	2.5	26
108	Warm inflation and classicality conditions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 428, 31-36.	4.1	29

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109	Power spectrum of the primordial scalar field fluctuations in the warm inflation scenario. Physical Review D, 1998, 58, .	4.7	20