

# Massimo Giovannini

## List of Publications by Year in descending order

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149  
papers

3,834  
citations

147726

31  
h-index

155592

55  
g-index

150  
all docs

150  
docs citations

150  
times ranked

1135  
citing authors

#	ARTICLE	IF	CITATIONS
1	The refractive index of the relic gravitons and the nHz band. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	4
2	Viscous absorption of ultra-high-frequency gravitons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 829, 137071.	1.5	0
3	Relic gravitons at intermediate frequencies and the expansion history of the Universe. <i>Physical Review D</i> , 2022, 105, .	1.6	4
4	Inflationary magnetogenesis in the perturbative regime. <i>Classical and Quantum Gravity</i> , 2021, 38, 135018.	1.5	7
5	Baryogenesis, magnetogenesis and the strength of anomalous interactions. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	11
6	Effective field theories and inflationary magnetogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 819, 136444.	1.5	7
7	Palatini approach and large-scale magnetogenesis. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 058.	1.9	7
8	Large-scale gauge spectra and pseudoscalar couplings. <i>Physical Review D</i> , 2021, 104, .	1.6	9
9	Relic gravitons from stiff curvature perturbations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 810, 135801.	1.5	2
10	Planckian hypersurfaces, inflation and bounces. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	0
11	Primordial backgrounds of relic gravitons. <i>Progress in Particle and Nuclear Physics</i> , 2020, 112, 103774.	5.6	30
12	Spurious gauge-invariance of higher-order contributions to the spectral energy density of the relic gravitons. <i>International Journal of Modern Physics A</i> , 2020, 35, 2050165.	0.5	8
13	Effective anisotropic stresses of the relic gravitons. <i>International Journal of Modern Physics D</i> , 2020, 29, 2050112.	0.9	1
14	Polarized backgrounds of relic gravitons. <i>Physical Review D</i> , 2019, 99, .	1.6	6
15	Effective energy density of relic gravitons. <i>Physical Review D</i> , 2019, 100, .	1.6	8
16	Quantum coherence of relic gravitons and Hanbury Brown-Twiss interferometry. <i>Physical Review D</i> , 2019, 99, .	1.6	4
17	Stimulated emission of relic gravitons and their super-Poissonian statistics. <i>Modern Physics Letters A</i> , 2019, 34, 1950185.	0.5	3
18	Blue and violet graviton spectra from a dynamical refractive index. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 789, 502-507.	1.5	12

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19	Post-inflationary phases stiffer than radiation and Palatini formulation. <i>Classical and Quantum Gravity</i> , 2019, 36, 235017.	1.5	20
20	Spectator electric fields, de Sitter spacetime, and the Schwinger effect. <i>Physical Review D</i> , 2018, 97, .	1.6	18
21	Probing large-scale magnetism with the cosmic microwave background. <i>Classical and Quantum Gravity</i> , 2018, 35, 084003.	1.5	19
22	Post-inflationary thermal histories and the refractive index of relic gravitons. <i>Physical Review D</i> , 2018, 98, .	1.6	12
23	The propagating speed of relic gravitational waves and their refractive index during inflation. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	12
24	Glauber theory and the quantum coherence of curvature inhomogeneities. <i>Classical and Quantum Gravity</i> , 2017, 34, 035019.	1.5	6
25	Spectator Higgs field, large-scale gauge fields, and the nonminimal coupling to gravity. <i>Physical Review D</i> , 2017, 95, .	1.6	4
26	Stringy bounces and gradient instabilities. <i>Physical Review D</i> , 2017, 95, .	1.6	8
27	Tensor to scalar ratio from single field magnetogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 771, 482-486.	1.5	3
28	Averaged energy conditions and bouncing universes. <i>Physical Review D</i> , 2017, 96, .	1.6	6
29	Quantum coherence of cosmological perturbations. <i>Modern Physics Letters A</i> , 2017, 32, 1750191.	0.5	7
30	Hypermagnetic knots and gravitational radiation at intermediate frequencies. <i>Classical and Quantum Gravity</i> , 2017, 34, 135010.	1.5	3
31	Effective horizons, junction conditions and large-scale magnetism. <i>European Physical Journal C</i> , 2017, 77, 1.	1.4	2
32	Squeezed relic photons beyond the horizon. <i>Physical Review D</i> , 2017, 96, .	1.6	1
33	The refractive index of relic gravitons. <i>Classical and Quantum Gravity</i> , 2016, 33, 125002.	1.5	21
34	The first observations of wide-band interferometers and the spectra of relic gravitons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 528-532.	1.5	8
35	Anomalous magnetohydrodynamics in the extreme relativistic domain. <i>Physical Review D</i> , 2016, 94, .	1.6	10
36	Statistical anisotropy from inflationary magnetogenesis. <i>Physical Review D</i> , 2016, 93, .	1.6	5

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37	Quasiadiabatic modes from viscous inhomogeneities. Physical Review D, 2016, 93, .	1.6	3
38	Spectrum of anomalous magnetohydrodynamics. Physical Review D, 2016, 93, .	1.6	8
39	Inflationary magnetogenesis, derivative couplings, and relativistic Van der Waals interactions. Physical Review D, 2015, 92, .	1.6	11
40	Hypermagnetic gyrotropy, inflation, and the baryon asymmetry of the Universe. Physical Review D, 2015, 92, .	1.6	11
41	Uniform gradient expansions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 159-163.	1.5	5
42	Non-linear curvature inhomogeneities and backreaction for relativistic viscous fluids. Classical and Quantum Gravity, 2015, 32, 155004.	1.5	3
43	Scalar modes of the relic gravitons. Physical Review D, 2015, 91, .	1.6	6
44	Viscous modes, isocurvature perturbations, and CMB initial conditions. Physical Review D, 2015, 91, .	1.6	2
45	Magnetization of fluid phonons and large-scale curvature perturbations. Physical Review D, 2014, 90, .	1.6	3
46	Violation of consistency relations and the protoinflationary transition. Physical Review D, 2014, 89, .	1.6	6
47	TensorBmode and stochastic Faraday mixing. Physical Review D, 2014, 89, .	1.6	4
48	No-hair conjectures, primordial shear, and protoinflationary initial conditions. Physical Review D, 2014, 89, .	1.6	10
49	Faraday scaling and the BICEP2 observations. Physical Review D, 2014, 90, .	1.6	4
50	Scaling laws and sum rules for the $\langle B \rangle$ -mode polarization. Physical Review D, 2014, 89, .	1.6	6
51	Cosmic backgrounds of relic gravitons and their absolute normalization. Classical and Quantum Gravity, 2014, 31, 225002.	1.5	11
52	Anomalous magnetohydrodynamics. Physical Review D, 2013, 88, .	1.6	33
53	Secondary graviton spectra, second-order correlations and Bose-Einstein enhancement. Classical and Quantum Gravity, 2013, 30, 015009.	1.5	2
54	Bootstrapping from inflationary magnetogenesis to CMB initial conditions. Classical and Quantum Gravity, 2013, 30, 205017.	1.5	8

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55	Inflationary susceptibilities, duality, and large-scale magnetic field generation. <i>Physical Review D</i> , 2013, 88, .	1.6	20
56	Fluid phonons, protoinflationary dynamics, and large-scale gravitational fluctuations. <i>Physical Review D</i> , 2013, 88, .	1.6	7
57	Fluctuations of inflationary magnetogenesis. <i>Physical Review D</i> , 2013, 87, .	1.6	23
58	Primordial vorticity and gradient expansion. <i>Classical and Quantum Gravity</i> , 2012, 29, 035001.	1.5	4
59	Fluid phonons and inflaton quanta at the protoinflationary transition. <i>Classical and Quantum Gravity</i> , 2012, 29, 155003.	1.5	5
60	Compressible hydromagnetic nonlinearities in the predecoupling plasma. <i>Physical Review D</i> , 2012, 85, .	1.6	9
61	Weyl invariance and the conductivity of the protoinflationary plasma. <i>Physical Review D</i> , 2012, 85, .	1.6	12
62	Symmetries of inflationary magnetogenesis and the plasma initial conditions. <i>Physical Review D</i> , 2012, 86, .	1.6	11
63	Reynolds numbers in the early Universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 711, 327-331.	1.5	8
64	Growth rate of matter perturbations as a probe of large-scale magnetism. <i>Physical Review D</i> , 2011, 84, .	1.6	5
65	Gradient expansion, curvature perturbations, and magnetized plasmas. <i>Physical Review D</i> , 2011, 83, .	1.6	9
66	Hanbury Brownâ€™Twiss interferometry and second-order correlations of inflaton quanta. <i>Physical Review D</i> , 2011, 83, .	1.6	23
67	A circular polarimeter for the Cosmic Microwave Background. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 028-028.	1.9	5
68	Electric-magnetic duality and the conditions of inflationary magnetogenesis. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 003-003.	1.9	29
69	Multiplicity distributions in gravitational and strong interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 691, 274-278.	1.5	4
70	Stochastic backgrounds of relic gravitons: a theoretical appraisal. <i>PMC Physics A</i> , 2010, 4, .	9.1	40
71	Dark energy, integrated Sachsâ€™Wolfe effect and large-scale magnetic fields. <i>Classical and Quantum Gravity</i> , 2010, 27, 105011.	1.5	13
72	Magnetic field contribution to the last electronâ€™photon scattering. <i>Classical and Quantum Gravity</i> , 2010, 27, 225016.	1.5	3

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73	Last scattering, relic gravitons, and the circular polarization of the CMB. Physical Review D, 2010, 81, .	1.6	8
74	Spectator stresses and CMB observables. Physical Review D, 2010, 81, .	1.6	2
75	Secondary graviton spectra and waterfall-like fields. Physical Review D, 2010, 82, .	1.6	21
76	Circular dichroism, magnetic knots, and the spectropolarimetry of the cosmic microwave background. Physical Review D, 2010, 81, .	1.6	11
77	Parameter dependence of magnetized CMB observables. Physical Review D, 2009, 79, .	1.6	29
78	Cosmic polarimetry in magnetoactive plasmas. Physical Review D, 2009, 79, .	1.6	15
79	The thermal history of the plasma and high-frequency gravitons. Classical and Quantum Gravity, 2009, 26, 045004.	1.5	63
80	Ohmic currents and predecoupling magnetism. Physical Review D, 2009, 80, .	1.6	12
81	Birefringence, CMB polarization, and magnetized B-mode. Physical Review D, 2009, 79, .	1.6	12
82	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle V \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -mode polarization of the cosmic microwave background. Physical Review D, 2009, 80, .	1.6	21
83	Estimating relic magnetic fields from CMB temperature correlations. Physical Review D, 2009, 79, .	1.6	36
84	Magnetogenesis, spectator fields and CMB signatures. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 661-668.	1.5	47
85	Stochastic backgrounds of relic gravitons, $\Lambda$ CDM paradigm and the stiff ages. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 668, 44-50.	1.5	44
86	Faraday rotation, stochastic magnetic fields, and CMB maps. Physical Review D, 2008, 78, .	1.6	60
87	Dynamical suppression of nonadiabatic modes. Physical Review D, 2008, 78, .	1.6	1
88	Magnetized CMB observables: A dedicated numerical approach. Physical Review D, 2008, 77, .	1.6	64
89	Generalized CMB initial conditions with pre-equality magnetic fields. Physical Review D, 2008, 77, .	1.6	23
90	Magnetized completion of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{\rho} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{CDM} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ paradigm. Physical Review D, 2008, 77, .	1.6	21

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91	WHY CMB PHYSICS?. International Journal of Modern Physics A, 2007, 22, 2697-2894.	0.5	8
92	Time-dependent gravitating solitons in five-dimensional warped space-times. Physical Review D, 2007, 76, .	1.6	8
93	Large-scale magnetic fields, curvature fluctuations, and the thermal history of the Universe. Physical Review D, 2007, 76, .	1.6	21
94	Gravitating multidefects from higher dimensions. Physical Review D, 2007, 75, .	1.6	22
95	Semi-analytical approach to magnetized temperature autocorrelations. PMC Physics A, 2007, 1, .	9.1	28
96	Tight coupling expansion and fully inhomogeneous magnetic fields. Physical Review D, 2006, 74, .	1.6	57
97	Kink-antikink, trapping bags and five-dimensional Gauss-Bonnet gravity. Physical Review D, 2006, 74, .	1.6	16
98	Non-topological gravitating defects in five-dimensional anti-de Sitter space. Classical and Quantum Gravity, 2006, 23, L73-L80.	1.5	12
99	Inhomogeneous dusty universes and their deceleration. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 634, 1-4.	1.5	13
100	Entropy perturbations and large-scale magnetic fields. Classical and Quantum Gravity, 2006, 23, 4991-5025.	1.5	49
101	Magnetized CMB anisotropies. Classical and Quantum Gravity, 2006, 23, R1-R44.	1.5	60
102	Transfer matrices for magnetized CMB anisotropies. Physical Review D, 2006, 73, .	1.6	31
103	Dynamical backreaction of relic gravitons. Physical Review D, 2006, 73, .	1.6	22
104	Interacting viscous mixtures. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 622, 349-355.	1.5	17
105	Curvature perturbations from dimensional decoupling. Classical and Quantum Gravity, 2005, 22, 2201-2219.	1.5	4
106	Gradient expansion(s) and dark energy. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 009-009.	1.9	17
107	Rotational inhomogeneities from pre-big bang?. Classical and Quantum Gravity, 2005, 22, 363-378.	1.5	6
108	Cosmological perturbations for imperfect fluids. Classical and Quantum Gravity, 2005, 22, 5243-5269.	1.5	17

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109	THEORETICAL TOOLS FOR CMB PHYSICS. International Journal of Modern Physics D, 2005, 14, 363-510.	0.9	52
110	Magnetized birefringence and CMB polarization. Physical Review D, 2005, 71, .	1.6	41
111	Homogeneous and isotropic big rips?. Physical Review D, 2005, 72, .	1.6	13
112	Heating up the cold bounce. Classical and Quantum Gravity, 2004, 21, 4209-4229.	1.5	18
113	Vector fluctuations from multidimensional curvature bounces. Physical Review D, 2004, 70, .	1.6	17
114	Tracking curvaton(s)?. Physical Review D, 2004, 69, .	1.6	10
115	Magnetized initial conditions for CMB anisotropies. Physical Review D, 2004, 70, .	1.6	51
116	THE MAGNETIZED UNIVERSE. International Journal of Modern Physics D, 2004, 13, 391-502.	0.9	336
117	Low-scale quintessential inflation. Physical Review D, 2003, 67, .	1.6	50
118	Cosmology of codimension-two braneworlds. Journal of High Energy Physics, 2003, 2003, 048-048.	1.6	127
119	Assigning quantum-mechanical initial conditions to cosmological perturbations. Classical and Quantum Gravity, 2003, 20, 5455-5473.	1.5	24
120	Scalar normal modes of higher-dimensional gravitating kinks. Classical and Quantum Gravity, 2003, 20, 1063-1076.	1.5	33
121	Big bang nucleosynthesis, matter-antimatter regions, extra relativistic species, and relic gravitational waves. Physical Review D, 2002, 66, .	1.6	29
122	Localization of metric fluctuations on scalar branes. Physical Review D, 2002, 65, .	1.6	50
123	Gauge field localization on Abelian vortices in six dimensions. Physical Review D, 2002, 66, .	1.6	31
124	Zero modes of six-dimensional Abelian vortices. Classical and Quantum Gravity, 2002, 19, 3357-3385.	1.5	26
125	Vector field localization and negative tension branes. Physical Review D, 2002, 65, .	1.6	12
126	Thick branes and Gauss-Bonnet self-interactions. Physical Review D, 2001, 64, .	1.6	46

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127	Static dilaton solutions and singularities in six dimensional warped compactification with higher derivatives. Physical Review D, 2001, 63, .	1.6	23
128	Hedgehogs in higher dimensional gravity with curvature self-interactions. Physical Review D, 2001, 63, .	1.6	8
129	Variation of the gauge couplings during inflation. Physical Review D, 2001, 64, .	1.6	67
130	Gauge-invariant fluctuations of scalar branes. Physical Review D, 2001, 64, .	1.6	83
131	Primordial hypermagnetic knots. Physical Review D, 2000, 61, .	1.6	67
132	Homogeneous magnetic fields in fully anisotropic string cosmological backgrounds. Physical Review D, 2000, 62, .	1.6	9
133	Backgrounds of squeezed relic photons and their spatial correlations. Physical Review D, 2000, 61, .	1.6	14
134	Hypermagnetic knots, Chern-Simons waves, and the baryon asymmetry. Physical Review D, 2000, 61, .	1.6	59
135	Magnetogenesis and the dynamics of internal dimensions. Physical Review D, 2000, 62, .	1.6	54
136	Viscous cosmologies and the second law of thermodynamics. Physical Review D, 2000, 61, .	1.6	5
137	Spikes in the relic graviton background from quintessential inflation. Classical and Quantum Gravity, 1999, 16, 2905-2913.	1.5	93
138	Singularity free dilaton-driven cosmologies and pre-little-bangs. Physical Review D, 1999, 59, .	1.6	11
139	Relic gravitons, dominant energy condition, and bulk viscous stresses. Physical Review D, 1999, 59, .	1.6	20
140	Blue spectra of Kalb-Ramond axions and fully anisotropic string cosmologies. Physical Review D, 1999, 59, .	1.6	17
141	Fully anisotropic string cosmologies, Maxwell fields, and primordial shear. Physical Review D, 1999, 59, .	1.6	13
142	Production and detection of relic gravitons in quintessential inflationary models. Physical Review D, 1999, 60, .	1.6	185
143	Primordial hypermagnetic fields and the triangle anomaly. Physical Review D, 1998, 57, 2186-2206.	1.6	284
144	Gravitational wave constraints on post-inflationary phases stiffer than radiation. Physical Review D, 1998, 58, .	1.6	118

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145	Regular cosmological examples of tree-level dilaton-driven models. Physical Review D, 1998, 57, 7223-7234.	1.6	16
146	Magnetic knots as the origin of spikes in the gravitational wave backgrounds. Physical Review D, 1998, 58, .	1.6	11
147	Resonant and nonresonant amplification of massless gauge fields during an oscillating dilaton phase. Physical Review D, 1997, 56, 631-636.	1.6	8
148	Scalar and tensor inhomogeneities from dimensional decoupling. Physical Review D, 1997, 55, 595-608.	1.6	28
149	Cosmic microwave background polarization, Faraday rotation, and stochastic gravitational-wave backgrounds. Physical Review D, 1997, 56, 3198-3206.	1.6	65