

# Mairi Sakellariadou

## List of Publications by Year in descending order

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143  
papers

7,304  
citations

71102

41  
h-index

56724

83  
g-index

145  
all docs

145  
docs citations

145  
times ranked

4943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	26.7	808
2	Science case for the Einstein telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 050-050.	5.4	602
3	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
4	How generic is cosmic string formation in supersymmetric grand unified theories. <i>Physical Review D</i> , 2003, 68, .	4.7	319
5	Science with the space-based interferometer LISA. IV: probing inflation with gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 026-026.	5.4	256
6	Cosmological evolution of cosmic string loops. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 023-023.	5.4	234
7	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
8	Fundamental physics with the Square Kilometre Array. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	179
9	Quantum gravity phenomenology at the dawn of the multi-messenger era—A review. <i>Progress in Particle and Nuclear Physics</i> , 2022, 125, 103948.	14.4	175
10	Probing the gravitational wave background from cosmic strings with LISA. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 034-034.	5.4	164
11	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	4.5	144
12	Testing modified gravity at cosmological distances with LISA standard sirens. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 024-024.	5.4	129
13	LIGO detector characterization in the second and third observing runs. <i>Classical and Quantum Gravity</i> , 2021, 38, 135014.	4.0	128
14	Cosmic string loop distribution on all length scales and at any redshift. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 003-003.	5.4	104
15	The physics programme of the MoEDAL experiment at the LHC. <i>International Journal of Modern Physics A</i> , 2014, 29, 1430050.	1.5	93
16	Scaling and small-scale structure in cosmic string networks. <i>Physical Review D</i> , 1997, 56, 637-646.	4.7	91
17	A note on the evolution of cosmic string/superstring networks. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 003-003.	5.4	87
18	Nonvacuum initial states for cosmological perturbations of quantum-mechanical origin. <i>Physical Review D</i> , 2000, 61, .	4.7	86

#	ARTICLE	IF	CITATIONS
19	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
20	Gravitational waves emitted from infinite strings. <i>Physical Review D</i> , 1990, 42, 354-360.	4.7	80
21	Evidence against or for topological defects in the BOOMERanG data?. <i>Physical Review D</i> , 2001, 65, .	4.7	77
22	Anisotropies in the stochastic gravitational-wave background: Formalism and the cosmic string case. <i>Physical Review D</i> , 2018, 98, .	4.7	68
23	Constraints on supersymmetric grand unified theories from cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 004-004.	5.4	65
24	D-Term Inflation, Cosmic Strings, and Consistency with Cosmic Microwave Background Measurements. <i>Physical Review Letters</i> , 2005, 94, 011303.	7.8	65
25	Polarization-Based Tests of Gravity with the Stochastic Gravitational-Wave Background. <i>Physical Review X</i> , 2017, 7, .	8.9	65
26	Numerical experiments on string cosmology. <i>Nuclear Physics B</i> , 1996, 468, 319-335.	2.5	64
27	Anisotropies in the astrophysical gravitational-wave background: Predictions for the detection of compact binaries by LIGO and Virgo. <i>Physical Review D</i> , 2018, 98, .	4.7	63
28	Neutron star mergers as a probe of modifications of general relativity with finite-range scalar forces. <i>Physical Review D</i> , 2018, 97, .	4.7	61
29	Doppler Peaks in the Angular Power Spectrum of the Cosmic Microwave Background: A Fingerprint of Topological Defects. <i>Physical Review Letters</i> , 1996, 76, 579-582.	7.8	58
30	Inflation in inhomogeneous cosmology. <i>Physical Review D</i> , 1992, 45, 2802-2805.	4.7	56
31	Numerical experiments with $p$ - and $q$ -strings: the formation of $p$ , $q$ and $pq$ bound states. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 021-021.	5.4	55
32	Why do we live in  ? <i>Physical Review D</i> , 2019, 99, .	4.1	51
33	Prospects for axion searches with Advanced LIGO through binary mergers. <i>Physical Review D</i> , 2019, 99, .	4.7	51
34	Cosmic Strings and Cosmic Superstrings. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 192-193, 68-90.	0.4	50
35	Cosmological implications of interacting group field theory models: Cyclic universe and accelerated expansion. <i>Physical Review D</i> , 2016, 94, .	4.7	50
36	Projection effects on the observed angular spectrum of the astrophysical stochastic gravitational wave background. <i>Physical Review D</i> , 2020, 101, .	4.7	50

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37	Constraining models of extended gravity using Gravity Probe B and LARES experiments. Physical Review D, 2015, 91, .	4.7	49
38	Constraining the Noncommutative Spectral Action via Astrophysical Observations. Physical Review Letters, 2010, 105, 101602.	7.8	48
39	Quantum gravity and gravitational-wave astronomy. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 012-012.	5.4	44
40	Anisotropies in the Astrophysical Gravitational-Wave Background: The Impact of Black Hole Distributions. Physical Review Letters, 2019, 122, 111101.	7.8	43
41	Single field inflation and non-Gaussianity. Physical Review D, 2002, 66, .	4.7	42
42	Search for magnetic monopoles with the MoEDAL prototype trapping detector in 8 TeV proton-proton collisions at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
43	Implications for First-Order Cosmological Phase Transitions from the Third LIGO-Virgo Observing Run. Physical Review Letters, 2021, 126, 151301.	7.8	40
44	Cosmic-string evolution in flat spacetime. Physical Review D, 1990, 42, 349-353.	4.7	39
45	Inflation mechanism in asymptotic noncommutative geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 263-266.	4.1	39
46	Magnetic Monopole Search with the Full MoEDAL Trapping Detector in $13\text{ TeV}$ Collisions Interpreted in Photon-Fusion and Drell-Yan Production. Physical Review Letters, 2019, 123, 021802.	7.8	38
47	Lattice-refining loop quantum cosmology and inflation. Physical Review D, 2007, 76, .	4.7	37
48	Inflation in models with conformally coupled scalar fields: An application to the noncommutative spectral action. Physical Review D, 2010, 82, .	4.7	36
49	Cosmology and the noncommutative approach to the standard model. Physical Review D, 2010, 81, .	4.7	36
50	Shot noise in the astrophysical gravitational-wave background. Physical Review D, 2019, 100, .	4.7	36
51	Estimating the angular power spectrum of the gravitational-wave background in the presence of shot noise. Physical Review D, 2019, 100, .	4.7	34
52	Cosmic Strings. , 2007, , 247-288.		33
53	Lattice refining loop quantum cosmology and the matter Hamiltonian. Physical Review D, 2007, 76, .	4.7	33
54	Simultaneous estimation of astrophysical and cosmological stochastic gravitational-wave backgrounds with terrestrial detectors. Physical Review D, 2021, 103, .	4.7	33

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55	Eliminating the LIGO bounds on primordial black hole dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 078.	5.4	32
56	Relativistic modified Newtonian dynamics from string theory?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 652, 97-102.	4.1	31
57	Necessity of Dark Matter in Modified Newtonian Dynamics within Galactic Scales. <i>Physical Review Letters</i> , 2008, 100, 031302.	7.8	31
58	Cosmic superstrings. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 2881-2894.	3.4	31
59	Constraints on noncommutative spectral action from Gravity Probe B and torsion balance experiments. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 020-020.	5.4	31
60	Group Field Theory Condensate Cosmology: An Appetizer. <i>Universe</i> , 2019, 5, 147.	2.5	31
61	Semiclassical effects and the onset of inflation. <i>Physical Review D</i> , 1993, 47, 3184-3193.	4.7	30
62	Microwave background anisotropies from scaling seed perturbations. <i>Physical Review D</i> , 1997, 56, 4480-4493.	4.7	30
63	Gravitational waves in the spectral action of noncommutative geometry. <i>Physical Review D</i> , 2010, 82, .	4.7	29
64	D-term inflation in non-minimal supergravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006, 2006, 001-001.	5.4	28
65	Onset of inflation in loop quantum cosmology. <i>Physical Review D</i> , 2007, 76, .	4.7	28
66	Can the relativistic field theory version of modified Newtonian dynamics avoid dark matter on galactic scales?. <i>Physical Review D</i> , 2009, 79, .	4.7	28
67	Detecting a stochastic gravitational-wave background in the presence of correlated magnetic noise. <i>Physical Review D</i> , 2020, 102, .	4.7	28
68	Numerical experiments with cosmic strings in flat spacetime. <i>Physical Review D</i> , 1988, 37, 885-887.	4.7	27
69	Incompatibility of rotation curves with gravitational lensing for TeVeS theory. <i>Physical Review D</i> , 2009, 80, .	4.7	27
70	Noncommutative spectral geometry, algebra doubling, and the seeds of quantization. <i>Physical Review D</i> , 2011, 84, .	4.7	27
71	Gravitational-wave luminosity distance in quantum gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 135000.	4.1	27
72	Dynamics of F/D networks: the role of bound states. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 038.	5.4	26

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73	Impact of nonlinear effective interactions on group field theory quantum gravity condensates. <i>Physical Review D</i> , 2016, 94, .	4.7	26
74	Ability of LISA to detect a gravitational-wave background of cosmological origin: The cosmic string case. <i>Physical Review D</i> , 2022, 105, .	4.7	26
75	Accelerated expansion of the Universe without an inflaton and resolution of the initial singularity from Group Field Theory condensates. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 764, 49-53.	4.1	25
76	Local conformal symmetry in non-Riemannian geometry and the origin of physical scales. <i>European Physical Journal C</i> , 2017, 77, 605.	3.9	24
77	Cosmic string loop production functions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 015-015.	5.4	24
78	CLASS_GWB: robust modeling of the astrophysical gravitational wave background anisotropies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 030.	5.4	24
79	Relational evolution of effectively interacting group field theory quantum gravity condensates. <i>Physical Review D</i> , 2017, 95, .	4.7	22
80	Search for magnetic monopoles produced via the Schwinger mechanism. <i>Nature</i> , 2022, 602, 63-67.	27.8	22
81	Does gravity's rainbow induce inflation without an inflaton?. <i>Physical Review D</i> , 2014, 90, .	4.7	21
82	First Constraints on Nuclear Coupling of Axionlike Particles from the Binary Neutron Star Gravitational Wave Event GW170817. <i>Physical Review Letters</i> , 2021, 127, 161101.	7.8	21
83	Search for a Scalar Induced Stochastic Gravitational Wave Background in the Third LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2022, 128, 051301.	7.8	21
84	Cosmic Microwave Background Anisotropies from Scaling Seeds: Fit to Observational Data. <i>Physical Review Letters</i> , 1997, 79, 5198-5201.	7.8	20
85	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
86	Confronting MOND and TeVeS with strong gravitational lensing over galactic scales: An extended survey. <i>Physical Review D</i> , 2012, 86, .	4.7	19
87	Dynamics of anisotropies close to a cosmological bounce in quantum gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 015014.	4.0	18
88	Numerical techniques for solving the quantum constraint equation of generic lattice-refined models in loop quantum cosmology. <i>Physical Review D</i> , 2008, 78, .	4.7	17
89	Shortcomings of Shapiro delay-based tests of the equivalence principle on cosmological scales. <i>Physical Review D</i> , 2019, 100, .	4.7	17
90	NONCOMMUTATIVE GEOMETRY SPECTRAL ACTION AS A FRAMEWORK FOR UNIFICATION: INTRODUCTION AND PHENOMENOLOGICAL/COSMOLOGICAL CONSEQUENCES. <i>International Journal of Modern Physics D</i> , 2011, 20, 785-804.	2.1	15

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91	Spectral action with zeta function regularization. <i>Physical Review D</i> , 2015, 91, .	4.7	15
92	The D-material universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 060-060.	5.4	15
93	Late time cosmic acceleration in modified SÃ¡ezâ€Ballester theory. <i>Physics of the Dark Universe</i> , 2020, 27, 100446.	4.9	15
94	Production of Topological Defects at the End of Inflation. , 2008, , 359-392.		15
95	Unique factor ordering in the continuum limit of loop quantum cosmology. <i>Physical Review D</i> , 2008, 78, .	4.7	14
96	Searching for parity violation with the LIGO-Virgo-KAGRA network. <i>Physical Review D</i> , 2021, 104, .	4.7	14
97	Stringy models of modified gravity: space-time defects and structure formation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 015-015.	5.4	13
98	Spectral regularisation: induced gravity and the onset of inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 035-035.	5.4	13
99	Cusps on cosmic superstrings with junctions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 022.	5.4	12
100	Unstable anisotropic loop quantum cosmology. <i>Physical Review D</i> , 2009, 80, .	4.7	10
101	Zippering and unzipping in string networks: Dynamics of Y-junctions. <i>Physical Review D</i> , 2015, 91, .	4.7	10
102	Impact of Schumann resonances on the Einstein Telescope and projections for the magnetic coupling function. <i>Physical Review D</i> , 2021, 104, .	4.7	10
103	The revival of cosmic strings. <i>Annalen Der Physik</i> , 2006, 15, 264-276.	2.4	9
104	Gravitational wave bursts from cosmic string cusps and pseudocusps. <i>Physical Review D</i> , 2017, 96, .	4.7	8
105	Noncommutative gravity with self-dual variables. <i>Classical and Quantum Gravity</i> , 2018, 35, 215009.	4.0	8
106	SCATTERING OF COSMIC STRINGS BY BLACK HOLES: LOOP FORMATION. <i>International Journal of Modern Physics D</i> , 2007, 16, 1311-1325.	2.1	7
107	Spaceâ€time dimensionality from brane collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 674, 210-212.	4.1	7
108	Cosmic strings from pseudo-anomalous Fayet-Iliopoulos U(1)FI in D3/D7 brane inflation. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	7

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109	Theoretical constraints on brane inflation and cosmic superstring radiation. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	7
110	Cusps and pseudocusps in strings with Y-junctions. <i>Physical Review D</i> , 2014, 90, .	4.7	7
111	Is F-term hybrid inflation natural within minimal supersymmetric SO(10)?. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	7
112	Constraints on extended gravity models through gravitational wave emission. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 014.	5.4	7
113	Fourth order deformed general relativity. <i>Physical Review D</i> , 2014, 90, .	4.7	6
114	Effective cosmological constant induced by stochastic fluctuations of Newton's constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 760, 498-501.	4.1	6
115	Nonlinear gravitational-wave memory from cusps and kinks on cosmic strings. <i>Classical and Quantum Gravity</i> , 2021, 38, 165004.	4.0	6
116	On the possibility of dark energy from corrections to the Wheeler–DeWitt equation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 661, 37-41.	4.1	5
117	Doubling of the algebra and neutrino mixing within noncommutative spectral geometry. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	5
118	Can we detect quantum gravity with compact binary inspirals?. <i>Physical Review D</i> , 2018, 98, .	4.7	5
119	Noncommutative spectral geometry, dissipation and the origin of quantization. <i>Journal of Physics: Conference Series</i> , 2012, 361, 012025.	0.4	4
120	Linear stability of noncommutative spectral geometry. <i>Physical Review D</i> , 2016, 93, .	4.7	4
121	Noncommutative geometrical origin of the energy-momentum dispersion relation. <i>Physical Review D</i> , 2017, 95, .	4.7	4
122	Graviton propagation within the context of the D-material universe. <i>European Physical Journal C</i> , 2017, 77, 445.	3.9	4
123	Tachyonic decay of unstable Dirichlet branes. <i>Physical Review D</i> , 2008, 78, .	4.7	3
124	Phenomenology of loop quantum cosmology. <i>Journal of Physics: Conference Series</i> , 2010, 222, 012027.	0.4	3
125	Cosmological consequences of the noncommutative spectral geometry as an approach to unification. <i>Journal of Physics: Conference Series</i> , 2011, 283, 012031.	0.4	3
126	Noncommutative spectral geometry: a short review. <i>Journal of Physics: Conference Series</i> , 2013, 442, 012015.	0.4	3



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127	How well do we understand the thermal history of the Universe? Implications of the recent BICEP2 data. <i>Physical Review D</i> , 2014, 90, .	4.7	3
128	Deformed general relativity and scalar-tensor models. <i>Classical and Quantum Gravity</i> , 2018, 35, 225005.	4.0	3
129	Fermionic spectral action and the origin of nonzero neutrino masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 351-355.	4.1	3
130	Constraints on quasidilaton massive gravity. <i>Physical Review D</i> , 2019, 100, .	4.7	3
131	Upper limits on the temperature of inspiraling astrophysical black holes. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	3
132	Gravitational Waves: The Theorist's Swiss Knife. <i>Universe</i> , 2022, 8, 132.	2.5	3
133	Formation & evolution of cosmic superstrings: a short review. <i>Fortschritte Der Physik</i> , 2010, 58, 792-796.	4.4	2
134	Lattice refining LQC from an isotropic embedding of anisotropic cosmology. <i>Classical and Quantum Gravity</i> , 2010, 27, 145014.	4.0	2
135	Semiclassical solutions of generalized Wheeler-DeWitt cosmology. <i>Physical Review D</i> , 2016, 93, .	4.7	2
136	Quantum Gravity and Cosmology: an intimate interplay. <i>Journal of Physics: Conference Series</i> , 2017, 880, 012003.	0.4	2
137	The general scalar-tensor Hamiltonian with deformed covariance. <i>Classical and Quantum Gravity</i> , 2019, 36, 125010.	4.0	2
138	Aspects of the Bosonic Spectral Action. <i>Journal of Physics: Conference Series</i> , 2015, 631, 012012.	0.4	1
139	General gravitational Lagrangian with deformed covariance. <i>Physical Review D</i> , 2020, 102, .	4.7	1
140	Noncommutative spectral geometry and the deformed Hopf algebra structure of quantum field theory. <i>Journal of Physics: Conference Series</i> , 2013, 442, 012016.	0.4	0
141	Highlights of non-commutative spectral geometry. <i>Journal of Physics: Conference Series</i> , 2014, 484, 012073.	0.4	0
142	Inflation and cosmic (super)strings: implications of their intimate relation revisited. <i>Journal of Physics: Conference Series</i> , 2014, 544, 012027.	0.4	0
143	Noncommutative spectral geometry, Bogoliubov transformations and neutrino oscillations. <i>Journal of Physics: Conference Series</i> , 2015, 626, 012014.	0.4	0