

# Marek Lewicki

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,427  
citations

279487

23  
h-index

233125

45  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1347  
citing authors

#	ARTICLE	IF	CITATIONS
1	AION: an atom interferometer observatory and network. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 011-011.	1.9	196
2	On the maximal strength of a first-order electroweak phase transition and its gravitational wave signal. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 003-003.	1.9	191
3	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020, 7, .	2.9	190
4	Gravitational wave energy budget in strongly supercooled phase transitions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 024-024.	1.9	180
5	Probing the gravitational wave background from cosmic strings with LISA. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 034-034.	1.9	164
6	Cosmic String Interpretation of NANOGrav Pulsar Timing Data. <i>Physical Review Letters</i> , 2021, 126, 041304.	2.9	163
7	Gravitational wave, collider and dark matter signals from a scalar singlet electroweak baryogenesis. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	118
8	The First Three Seconds: a Review of Possible Expansion Histories of the Early Universe. <i>The Open Journal of Astrophysics</i> , 2021, 4, .	0.8	117
9	Gravitational waves from first-order cosmological phase transitions: lifetime of the sound wave source. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 050-050.	1.9	112
10	Probing the pre-BBN universe with gravitational waves from cosmic strings. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	101
11	Cosmic archaeology with gravitational waves from cosmic strings. <i>Physical Review D</i> , 2018, 97, .	1.6	80
12	Updated predictions for gravitational waves produced in a strongly supercooled phase transition. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 020-020.	1.9	75
13	Gravitational waves and electroweak baryogenesis in a global study of the extended scalar singlet model. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	63
14	Gravitational wave spectra from strongly supercooled phase transitions. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	61
15	On bubble collisions in strongly supercooled phase transitions. <i>Physics of the Dark Universe</i> , 2020, 30, 100672.	1.8	52
16	Gravitational wave and collider implications of electroweak baryogenesis aided by non-standard cosmology. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	49
17	Gravitational waves from colliding vacuum bubbles in gauge theories. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	43
18	Higher-order scalar interactions and SM vacuum stability. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	42

#	ARTICLE	IF	CITATIONS
19	Intergalactic magnetic fields from first-order phase transitions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 019-019.	1.9	39
20	Gravitational Wave Bursts as Harbingers of Cosmic Strings Diluted by Inflation. <i>Physical Review Letters</i> , 2020, 125, 211302.	2.9	38
21	Electroweak bubble wall expansion: gravitational waves and baryogenesis in Standard Model-like thermal plasma. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	1.6	35
22	Prospective sensitivities of atom interferometers to gravitational waves and ultralight dark matter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210060.	1.6	27
23	Upper bounds on sparticle masses from $\mu$ on $g \hat{=} 2$ and the Higgs mass and the complementarity of future colliders. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	23
24	Gravitational wave signals and cosmological consequences of gravitational reheating. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 046-046.	1.9	23
25	The impact of non-minimally coupled gravity on vacuum stability. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	22
26	Domain walls and gravitational waves in the Standard Model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 036-036.	1.9	19
27	Escape from supercooling with or without bubbles: gravitational wave signatures. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	19
28	Inflationary scenarios in Starobinsky model with higher order corrections. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 032-032.	1.9	17
29	Gauge fixing and renormalization scale independence of tunneling rate in Abelian Higgs model and in the standard model. <i>Physical Review D</i> , 2016, 94, .	1.6	16
30	Enabling electroweak baryogenesis through dark matter. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	15
31	Detecting circular polarisation in the stochastic gravitational-wave background from a first-order cosmological phase transition. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 032-032.	1.9	15
32	Towards the fate of the oscillating false vacuum. <i>Physical Review D</i> , 2017, 96, .	1.6	13
33	Stability of domain walls in models with asymmetric potentials. <i>Physical Review D</i> , 2021, 104, .	1.6	13
34	Inflation and dark energy from the Brans-Dicke theory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 031-031.	1.9	11
35	Saddle point inflation from higher order corrections to Higgs/Starobinsky inflation. <i>Physical Review D</i> , 2016, 93, .	1.6	10
36	Domain walls in the extensions of the Standard Model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 007-007.	1.9	9

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37	AEDGE: Atomic experiment for dark matter and gravity exploration in space. <i>Experimental Astronomy</i> , 2017, 2017, 011-011.	1.6	9
38	Multi-phase induced inflation in theories with non-minimal coupling to gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 011-011.	1.9	8
39	Generalized escape paths for dynamical tunneling in QFT. <i>Physical Review D</i> , 2019, 100, .	1.6	8
40	Saddle point inflation from $f(R)$ theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 750, 595-600.	1.5	5
41	Higgs boson mass and high-luminosity LHC probes of supersymmetry with vectorlike top quark. <i>Physical Review D</i> , 2015, 91, .	1.6	5
42	Fine-tuning in GGM and the 126 GeV Higgs particle. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	4
43	Implications of extreme flatness in a general $f(R)$ theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 760, 432-437.	1.5	3
44	Higgs domain walls in the thermal background. <i>Physics of the Dark Universe</i> , 2019, 26, 100347.	1.8	2
45	Features of electroweak symmetry breaking in five dimensional SUSY models. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	1
46	Gravitational waves from domain walls in the Standard Model. <i>Journal of Physics: Conference Series</i> , 2017, 873, 012044.	0.3	0