

# Marek Lewicki

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46 papers	1,216 citations	19 h-index	34 g-index
47 ext. papers	1,774 ext. citations	5.3 avg, IF	5.79 L-index

#	Paper	IF	Citations
46	Electroweak bubble wall expansion: gravitational waves and baryogenesis in Standard Model-like thermal plasma. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	3
45	Prospective sensitivities of atom interferometers to gravitational waves and ultralight dark matter.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2022</b> , 380, 20210060	3	3
44	Gravitational waves from colliding vacuum bubbles in gauge theories. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	15
43	The First Three Seconds: a Review of Possible Expansion Histories of the Early Universe. <i>The Open Journal of Astrophysics</i> , <b>2021</b> , 4,	8.1	43
42	Cosmic String Interpretation of NANOGrav Pulsar Timing Data. <i>Physical Review Letters</i> , <b>2021</b> , 126, 041304	7.4	65
41	Escape from supercooling with or without bubbles: gravitational wave signatures. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
40	Stability of domain walls in models with asymmetric potentials. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	2
39	AION: an atom interferometer observatory and network. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 011-011	6.4	69
38	Probing the gravitational wave background from cosmic strings with LISA. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 034-034	6.4	68
37	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , <b>2020</b> , 7,	6.9	76
36	Detecting circular polarisation in the stochastic gravitational-wave background from a first-order cosmological phase transition. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 032-032	6.4	7
35	Updated predictions for gravitational waves produced in a strongly supercooled phase transition. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 020-020	6.4	26
34	On bubble collisions in strongly supercooled phase transitions. <i>Physics of the Dark Universe</i> , <b>2020</b> , 30, 100672	4.4	20
33	Gravitational Wave Bursts as Harbingers of Cosmic Strings Diluted by Inflation. <i>Physical Review Letters</i> , <b>2020</b> , 125, 211302	7.4	14
32	Gravitational wave spectra from strongly supercooled phase transitions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	23
31	Gravitational waves from first-order cosmological phase transitions: lifetime of the sound wave source. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 050-050	6.4	48
30	Higgs domain walls in the thermal background. <i>Physics of the Dark Universe</i> , <b>2019</b> , 26, 100347	4.4	1

29	Gravitational wave energy budget in strongly supercooled phase transitions. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 024-024	6.4	104
28	Gravitational waves and electroweak baryogenesis in a global study of the extended scalar singlet model. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	45
27	On the maximal strength of a first-order electroweak phase transition and its gravitational wave signal. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 003-003	6.4	97
26	Probing the pre-BBN universe with gravitational waves from cosmic strings. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	59
25	Intergalactic magnetic fields from first-order phase transitions. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 019-019	6.4	27
24	Generalized escape paths for dynamical tunneling in QFT. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7
23	Gravitational wave signals and cosmological consequences of gravitational reheating. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 046-046	6.4	17
22	Domain walls in the extensions of the Standard Model. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 007-007	6.4	6
21	Cosmic archaeology with gravitational waves from cosmic strings. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	53
20	Multi-phase induced inflation in theories with non-minimal coupling to gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2017</b> , 2017, 011-011	6.4	7
19	Gravitational waves from domain walls in the Standard Model. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 873, 012044	0.3	
18	Towards the fate of the oscillating false vacuum. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	9
17	Gravitational wave, collider and dark matter signals from a scalar singlet electroweak baryogenesis. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	89
16	Gravitational wave and collider implications of electroweak baryogenesis aided by non-standard cosmology. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	41
15	Saddle point inflation from higher order corrections to Higgs/Starobinsky inflation. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	9
14	Enabling electroweak baryogenesis through dark matter. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
13	Gauge fixing and renormalization scale independence of tunneling rate in Abelian Higgs model and in the standard model. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	15
12	Domain walls and gravitational waves in the Standard Model. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2016</b> , 2016, 036-036	6.4	13

11	Implications of extreme flatness in a general $f(R)$ theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 432-437	4.2	2
10	The impact of non-minimally coupled gravity on vacuum stability. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	19
9	Inflation and dark energy from the Brans-Dicke theory. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2015</b> , 2015, 031-031	6.4	9
8	Upper bounds on sparticle masses from muon $g-2$ and the Higgs mass and the complementarity of future colliders. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	20
7	Saddle point inflation from $f(R)$ theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 595-600	4.2	5
6	Higgs boson mass and high-luminosity LHC probes of supersymmetry with vectorlike top quark. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	5
5	Features of electroweak symmetry breaking in five dimensional SUSY models. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	1
4	Inflationary scenarios in Starobinsky model with higher order corrections. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2015</b> , 2015, 032-032	6.4	15
3	Higher-order scalar interactions and SM vacuum stability. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	39
2	Fine-tuning in GGM and the 126 GeV Higgs particle. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	4
1	AEDGE: Atomic experiment for dark matter and gravity exploration in space. <i>Experimental Astronomy</i> , 1	1.3	2