Ville Vaskonen

List of Publications by Year
in descending order

47	3,636	136740	205818
papers	citations	32 h-index	48 g-index

50	50	50	2242
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The dawn of FIMP Dark Matter: A review of models and constraints. International Journal of Modern Physics A, 2017, 32, 1730023.	0.5	336
2	Primordial black hole constraints for extended mass functions. Physical Review D, 2017, 96, .	1.6	301
3	Gravitational waves from primordial black hole mergers. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 037-037.	1.9	216
4	Formation and evolution of primordial black hole binaries in the early universe. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 018-018.	1.9	207
5	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. EPJ Quantum Technology, 2020, 7, .	2.9	190
6	Gravitational wave energy budget in strongly supercooled phase transitions. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	1.9	180
7	Did NANOGrav See a Signal from Primordial Black Hole Formation?. Physical Review Letters, 2021, 126, 051303.	2.9	142
8	Two populations of LIGO-Virgo black holes. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 068.	1.9	131
9	Electroweak baryogenesis and gravitational waves from a real scalar singlet. Physical Review D, 2017, 95, .	1.6	117
10	Lower bound on the primordial black hole merger rate. Physical Review D, 2020, 101, .	1.6	116
11	The EDGES 21 cm anomaly and properties of dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 159-164.	1.5	109
12	Dark matter effects on neutron star properties. Physical Review D, 2018, 97, .	1.6	99
13	Phase transition and gravitational wave phenomenology of scalar conformal extensions of the Standard Model. European Physical Journal C, 2017, 77, 1.	1.4	90
14	Primordial black holes from inflaton and spectator field perturbations in a matter-dominated era. Physical Review D, 2017, 96, .	1.6	87
15	Constraining primordial black holes with the EDGES 21-cm absorption signal. Physical Review D, 2018, 98, .	1.6	79
16	Updated predictions for gravitational waves produced in a strongly supercooled phase transition. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 020-020.	1.9	75
17	Phase transition and vacuum stability in the classically conformal Bâ€“L model. European Physical Journal C, 2019, 79, 1.	1.4	73
18	Quantum corrections to quartic inflation with a non-minimal coupling: metric vs. Palatini. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 029-029.	1.9	72

#	Article	IF	Citations
19	On the validity of perturbative studies of the electroweak phase transition in the Two Higgs Doublet model. Journal of High Energy Physics, 2019, 2019, 1.	1.6	71
20	Search for dark matter effects on gravitational signals from neutron star mergers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 607-610.	1.5	69
21	Strong phase transition, dark matter and vacuum stability from simple hidden sectors. Nuclear Physics B, 2014, 889, 692-711.	0.9	66
22	Isocurvature constraints on portal couplings. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 022-022.	1.9	65
23	Gravitational wave spectra from strongly supercooled phase transitions. European Physical Journal C, 2020, 80, 1.	1.4	61
24	On bubble collisions in strongly supercooled phase transitions. Physics of the Dark Universe, 2020, 30, 100672.	1.8	52
25	Scalar singlet dark matter in non-standard cosmologies. European Physical Journal C, 2019, 79, 30.	1.4	51
26	Observational constraints on decoupled hidden sectors. Physical Review D, 2016, 94, .	1.6	49
27	Gravitational waves from colliding vacuum bubbles in gauge theories. European Physical Journal C, 2021, 81, 1.	1.4	43
28	Reheating the Standard Model from a hidden sector. Physical Review D, 2016, 94, .	1.6	42
29	Self-interacting dark matter and cosmology of a light scalar mediator. Physical Review D, 2016, 93, .	1.6	40
30	Intergalactic magnetic fields from first-order phase transitions. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 019-019.	1.9	39
31	A strong electroweak phase transition from the inflaton field. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 037-037.	1.9	36
32	Prospects for probing gravitational waves from primordial black hole binaries. Physical Review D, 2021, 104, .	1.6	33
33	Baryogenesis in the two doublet and inert singlet extension of the Standard Model. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 057-057.	1.9	27
34	Prospective sensitivities of atom interferometers to gravitational waves and ultralight dark matter. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210060.	1.6	27
35	Light primordial exotic compact objects as all dark matter. Physical Review D, 2018, 97, .	1.6	24
36	Lensing of gravitational waves as a probe of compact dark matter. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1358-1365.	1.6	23

#	Article	IF	Citations
37	Search for a Scalar Induced Stochastic Gravitational Wave Background in the Third LIGO-Virgo Observing Run. Physical Review Letters, 2022, 128, 051301.	2.9	21
38	Escape from supercooling with or without bubbles: gravitational wave signatures. European Physical Journal C, 2021, 81, 1.	1.4	19
39	Primordial black holes from thermal inflation. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 046-046.	1.9	16
40	Constraints on ALPs and excited dark matter from the EDGES 21 cm absorption signal. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 429-433.	1.5	15
41	Detecting circular polarisation in the stochastic gravitational-wave background from a first-order cosmological phase transition. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 032-032.	1.9	15
42	Primordial black holes from spectator field bubbles. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 017.	1.9	15
43	Probes of gravitational waves with atom interferometers. Physical Review D, 2020, 101, .	1.6	12
44	AEDGE: Atomic experiment for dark matter and gravity exploration in space. Experimental Astronomy, 0, , 1.	1.6	9
45	Modifying dark matter indirect detection signals by thermal effects at freeze-out. Physical Review D, 2018, 98, .	1.6	6
46	Cosmological black holes are not described by the Thakurta metric: LIGO-Virgo bounds on PBHs remain unchanged. European Physical Journal C, 2021, 81, 1.	1.4	4
47	Observational Properties of Feebly Coupled Dark Matter. , 2017, , .		3