

Ville Vaskonen

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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

2,169
citations

27
h-index

46
g-index

50
ext. papers

2,925
ext. citations

5
avg, IF

6.27
L-index

#	Paper	IF	Citations
46	Search for a Scalar Induced Stochastic Gravitational Wave Background in the Third LIGO-Virgo Observing Run.. <i>Physical Review Letters</i> , 2022 , 128, 051301	7.4	3
45	Primordial black holes from spectator field bubbles. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022 , 2022, 017	6.4	0
44	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	3	3
43	Cosmological black holes are not described by the Thakurta metric: LIGO-Virgo bounds on PBHs remain unchanged. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
42	Prospects for probing gravitational waves from primordial black hole binaries. <i>Physical Review D</i> , 2021 , 104,	4.9	6
41	Two populations of LIGO-Virgo black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021 , 2021, 068	6.4	42
40	Gravitational waves from colliding vacuum bubbles in gauge theories. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	15
39	Did NANOGrav See a Signal from Primordial Black Hole Formation?. <i>Physical Review Letters</i> , 2021 , 126, 051303	7.4	61
38	Escape from supercooling with or without bubbles: gravitational wave signatures. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
37	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020 , 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> , 2020 , 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> , 2020 , 2020, 020-020	6.4	26
34	On bubble collisions in strongly supercooled phase transitions. <i>Physics of the Dark Universe</i> , 2020 , 30, 100672	4.4	20
33	Gravitational wave spectra from strongly supercooled phase transitions. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	23
32	Lower bound on the primordial black hole merger rate. <i>Physical Review D</i> , 2020 , 101,	4.9	69
31	Probes of gravitational waves with atom interferometers. <i>Physical Review D</i> , 2020 , 101,	4.9	6
30	Gravitational wave energy budget in strongly supercooled phase transitions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 024-024	6.4	104

29	Formation and evolution of primordial black hole binaries in the early universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 018-018	6.4	120
28	Scalar singlet dark matter in non-standard cosmologies. <i>European Physical Journal C</i> , 2019 , 79, 30	4.2	33
27	Primordial black holes from thermal inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 046-046	6.4	8
26	Phase transition and vacuum stability in the classically conformal B $\bar{\mu}$ model. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	42
25	On the validity of perturbative studies of the electroweak phase transition in the Two Higgs Doublet model. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	43
24	Intergalactic magnetic fields from first-order phase transitions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 019-019	6.4	27
23	Light primordial exotic compact objects as all dark matter. <i>Physical Review D</i> , 2018 , 97,	4.9	21
22	Constraining primordial black holes with the EDGES 21-cm absorption signal. <i>Physical Review D</i> , 2018 , 98,	4.9	58
21	The EDGES 21 cm anomaly and properties of dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 785, 159-164	4.2	84
20	Constraints on ALPs and excited dark matter from the EDGES 21 cm absorption signal. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 785, 429-433	4.2	13
19	Dark matter effects on neutron star properties. <i>Physical Review D</i> , 2018 , 97,	4.9	49
18	Quantum corrections to quartic inflation with a non-minimal coupling: metric vs. Palatini. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 029-029	6.4	52
17	Modifying dark matter indirect detection signals by thermal effects at freeze-out. <i>Physical Review D</i> , 2018 , 98,	4.9	3
16	Search for dark matter effects on gravitational signals from neutron star mergers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 781, 607-610	4.2	43
15	The dawn of FIMP Dark Matter: A review of models and constraints. <i>International Journal of Modern Physics A</i> , 2017 , 32, 1730023	1.2	218
14	Gravitational waves from primordial black hole mergers. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 037-037	6.4	152
13	Electroweak baryogenesis and gravitational waves from a real scalar singlet. <i>Physical Review D</i> , 2017 , 95,	4.9	75
12	Phase transition and gravitational wave phenomenology of scalar conformal extensions of the Standard Model. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	61

11	Primordial black hole constraints for extended mass functions. <i>Physical Review D</i> , 2017 , 96,	4.9	214
10	Primordial black holes from inflaton and spectator field perturbations in a matter-dominated era. <i>Physical Review D</i> , 2017 , 96,	4.9	69
9	Self-interacting dark matter and cosmology of a light scalar mediator. <i>Physical Review D</i> , 2016 , 93,	4.9	30
8	Reheating the Standard Model from a hidden sector. <i>Physical Review D</i> , 2016 , 94,	4.9	32
7	Baryogenesis in the two doublet and inert singlet extension of the Standard Model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016 , 2016, 057-057	6.4	25
6	A strong electroweak phase transition from the inflaton field. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016 , 2016, 037-037	6.4	35
5	Isocurvature constraints on portal couplings. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016 , 2016, 022-022	6.4	54
4	Observational constraints on decoupled hidden sectors. <i>Physical Review D</i> , 2016 , 94,	4.9	45
3	Strong phase transition, dark matter and vacuum stability from simple hidden sectors. <i>Nuclear Physics B</i> , 2014 , 889, 692-711	2.8	56
2	Lensing of gravitational waves as a probe of compact dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	4
1	AEDGE: Atomic experiment for dark matter and gravity exploration in space. <i>Experimental Astronomy</i> ,1	1.3	2