

Tina A Kahniashvili

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,216
citations

117625

34
h-index

149698

56
g-index

70
all docs

70
docs citations

70
times ranked

1184
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational radiation from cosmological turbulence. <i>Physical Review D</i> , 2002, 66, .	4.7	203
2	Microwave background signatures of a primordial stochastic magnetic field. <i>Physical Review D</i> , 2002, 65, .	4.7	176
3	Spectrum of gravitational radiation from primordial turbulence. <i>Physical Review D</i> , 2007, 76, .	4.7	142
4	Tensor microwave anisotropies from a stochastic magnetic field. <i>Physical Review D</i> , 2000, 61, .	4.7	127
5	Faraday rotation of the cosmic microwave background polarization by a stochastic magnetic field. <i>Physical Review D</i> , 2005, 71, .	4.7	124
6	Cosmic microwave background and helical magnetic fields: The tensor mode. <i>Physical Review D</i> , 2004, 69, .	4.7	121
7	Nonhelical Inverse Transfer of a Decaying Turbulent Magnetic Field. <i>Physical Review Letters</i> , 2015, 114, 075001.	7.8	113
8	Evolution of primordial magnetic fields from phase transitions. <i>Physical Review D</i> , 2013, 87, .	4.7	110
9	Classes of Hydrodynamic and Magnetohydrodynamic Turbulent Decay. <i>Physical Review Letters</i> , 2017, 118, 055102.	7.8	101
10	Effects of cosmological magnetic helicity on the cosmic microwave background. <i>Physical Review D</i> , 2005, 71, .	4.7	99
11	Gravitational radiation generated by cosmological phase transition magnetic fields. <i>Physical Review D</i> , 2010, 81, .	4.7	91
12	Microwave background anisotropies from Alfvén waves. <i>Physical Review D</i> , 1998, 58, .	4.7	90
13	Detectability of gravitational waves from phase transitions. <i>Physical Review D</i> , 2008, 78, .	4.7	88
14	Gravitational radiation from primordial helical inverse cascade magnetohydrodynamic turbulence. <i>Physical Review D</i> , 2008, 78, .	4.7	85
15	CMB temperature anisotropy from broken spatial isotropy due to a homogeneous cosmological magnetic field. <i>Physical Review D</i> , 2008, 78, .	4.7	72
16	The Turbulent Chiral Magnetic Cascade in the Early Universe. <i>Astrophysical Journal Letters</i> , 2017, 845, L21.	8.3	70
17	Evolution of hydromagnetic turbulence from the electroweak phase transition. <i>Physical Review D</i> , 2017, 96, .	4.7	70
18	Numerical simulations of gravitational waves from early-universe turbulence. <i>Physical Review D</i> , 2020, 102, .	4.7	70

#	ARTICLE	IF	CITATIONS
19	MAGNETIC FIELDS FROM QCD PHASE TRANSITIONS. <i>Astrophysical Journal</i> , 2012, 759, 54.	4.5	65
20	Faraday rotation limits on a primordial magnetic field from Wilkinson Microwave Anisotropy Probe five-year data. <i>Physical Review D</i> , 2009, 80, .	4.7	64
21	Primordial magnetic field limits from cosmological data. <i>Physical Review D</i> , 2010, 82, .	4.7	64
22	Polarized Cosmological Gravitational Waves from Primordial Helical Turbulence. <i>Physical Review Letters</i> , 2005, 95, 151301.	7.8	55
23	Testing Lorentz invariance violation with Wilkinson Microwave Anisotropy Probe five year data. <i>Physical Review D</i> , 2008, 78, .	4.7	52
24	CMB anisotropies due to cosmological magnetosonic waves. <i>Physical Review D</i> , 2007, 75, .	4.7	51
25	Signature of Local Motion in the Microwave Sky. <i>Physical Review Letters</i> , 2011, 106, 191301.	7.8	51
26	Looking for Cosmological Alfvén Waves in Wilkinson Microwave Anisotropy Probe Data. <i>Astrophysical Journal</i> , 2004, 611, 655-659.	4.5	50
27	Polarized gravitational waves from cosmological phase transitions. <i>Physical Review D</i> , 2015, 92, .	4.7	43
28	Numerical simulations of the decay of primordial magnetic turbulence. <i>Physical Review D</i> , 2010, 81, .	4.7	41
29	CONSTRAINING PRIMORDIAL MAGNETIC FIELDS THROUGH LARGE-SCALE STRUCTURE. <i>Astrophysical Journal</i> , 2013, 770, 47.	4.5	41
30	PHASE TRANSITION GENERATED COSMOLOGICAL MAGNETIC FIELD AT LARGE SCALES. <i>Astrophysical Journal</i> , 2011, 726, 78.	4.5	40
31	Evolution of inflation-generated magnetic field through phase transitions. <i>Physical Review D</i> , 2012, 86, .	4.7	38
32	Microwave background correlations from dipole anisotropy modulation. <i>Physical Review D</i> , 2015, 92, .	4.7	38
33	Galaxy cluster number count data constraints on cosmological parameters. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	36
34	Can we observe the QCD phase transition-generated gravitational waves through pulsar timing arrays?. <i>Physical Review D</i> , 2021, 104, .	4.7	36
35	Gravitational Radiation from Primordial Helical Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2008, 100, 231301.	7.8	29
36	Detection of magnetic helicity. <i>Physical Review D</i> , 2006, 73, .	4.7	26

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37	Circular polarization of gravitational waves from early-Universe helical turbulence. <i>Physical Review Research</i> , 2021, 3, .	3.6	26
38	Primordial magnetic helicity constraints from WMAP nine-year data. <i>Physical Review D</i> , 2014, 90, .	4.7	25
39	Relic Gravitational Waves from the Chiral Magnetic Effect. <i>Astrophysical Journal</i> , 2021, 911, 110.	4.5	23
40	Dynamo effect in decaying helical turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	23
41	Cosmic expansion in extended quasidilaton massive gravity. <i>Physical Review D</i> , 2015, 91, .	4.7	22
42	Scale-invariant helical magnetic field evolution and the duration of inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 002-002.	5.4	22
43	The timestep constraint in solving the gravitational wave equations sourced by hydromagnetic turbulence. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2020, 114, 130-161.	1.2	22
44	The evolution of primordial magnetic fields since their generation. <i>Physica Scripta</i> , 2016, 91, 104008.	2.5	21
45	Gamma ray burst constraints on ultraviolet Lorentz invariance violation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 643, 81-85.	4.1	19
46	Growth rate in the dynamical dark energy models. <i>European Physical Journal C</i> , 2014, 74, 3127.	3.9	16
47	Statistical properties of scale-invariant helical magnetic fields and applications to cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 034-034.	5.4	16
48	On the kinematics of a corotating relativistic plasma stream in the perpendicular rotator model of a pulsar magnetosphere. <i>Astrophysics and Space Science</i> , 1996, 239, 57-64.	1.4	15
49	Effects of primordial helicity on CMB. <i>New Astronomy Reviews</i> , 2006, 50, 1015-1019.	12.8	14
50	Primordial magnetic helicity evolution with a homogeneous magnetic field from inflation. <i>Physical Review D</i> , 2020, 102, .	4.7	14
51	The scalar, vector, and tensor modes in gravitational wave turbulence simulations. <i>Classical and Quantum Gravity</i> , 2021, 38, 145002.	4.0	14
52	Evolution of Primordial Magnetic Fields during Large-scale Structure Formation. <i>Astrophysical Journal</i> , 2022, 929, 127.	4.5	14
53	Mass varying neutrinos, quintessence, and the accelerating expansion of the Universe. <i>Physical Review D</i> , 2011, 83, .	4.7	13
54	Polarization of gravitational waves from helical MHD turbulent sources. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 019.	5.4	13

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55	E and B Polarizations from Inhomogeneous and Solar Surface Turbulence. <i>Astrophysical Journal</i> , 2019, 870, 87.	4.5	12
56	Abundance and evolution of galaxy clusters in cosmological models with massive neutrino. <i>Astronomy and Astrophysics</i> , 2002, 386, 775-783.	5.1	9
57	Neutrino mass limit from galaxy cluster number density evolution. <i>Physical Review D</i> , 2005, 71, .	4.7	9
58	Extra dimensions and Lorentz invariance violation. <i>Physical Review D</i> , 2007, 76, .	4.7	8
59	The observational constraints on the flat Λ CDM models. <i>European Physical Journal C</i> , 2018, 78, 773.	3.9	8
60	Big Bang Nucleosynthesis Limits and Relic Gravitational-Wave Detection Prospects. <i>Physical Review Letters</i> , 2022, 128, .	7.8	8
61	Cosmological magnetic fields vs. CMB. <i>New Astronomy Reviews</i> , 2005, 49, 79-82.	12.8	7
62	CMB signatures of a primordial magnetic field. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	6
63	Effects of cosmological magnetic helicity on the CMB. <i>Astronomische Nachrichten</i> , 2006, 327, 414-417.	1.2	5
64	Mass varying neutrinos with different quintessence potentials. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 018.	5.4	4
65	Generation of the electrostatic field in the pulsar magnetosphere plasma. <i>Physics of Plasmas</i> , 1997, 4, 1132-1135.	1.9	3
66	Magnetism in the Early Universe. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 295-298.	0.0	2
67	Gravitational radiation from primordial helical inverse cascade magnetohydrodynamic turbulence. , 0, .		2
68	The formation of the spectrum of pregalactic inhomogeneities in the CDM and HDM of the Universe. <i>Astronomische Nachrichten</i> , 1990, 311, 193-196.	1.2	0