

Wei-Tou Ni

List of Publications by Year in descending order

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84
papers

2,638
citations

304743

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197818

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87
all docs

87
docs citations

87
times ranked

3060
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the KAGRA detector during the first joint observation with GEO600 (O3GK). Progress of Theoretical and Experimental Physics, 2023, 2023, .	6.6	4
2	Core noise and GW sensitivities of AMIGO. International Journal of Modern Physics D, 2022, 31, .	2.1	2
3	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
4	Self-alignment of a large-area dual-atom-interferometer gyroscope using parameter-decoupled phase-seeking calibrations. Physical Review A, 2021, 103, .	2.5	9
5	Vibration isolation systems for the beam splitter and signal recycling mirrors of the KAGRA gravitational wave detector. Classical and Quantum Gravity, 2021, 38, 065011.	4.0	7
6	Algorithm for time-delay interferometry numerical simulation and sensitivity investigation. Physical Review D, 2021, 103, .	4.7	12
7	Alternative LISA-TAIJI networks. Physical Review D, 2021, 104, .	4.7	16
8	Joint mass-and-energy test of the equivalence principle at the 10^{-10} level using atoms with specified mass and internal energy. Physical Review A, 2021, 104, .	2.5	11
9	ZAIGA: Zhaoshan long-baseline atom interferometer gravitation antenna. International Journal of Modern Physics D, 2020, 29, 1940005.	2.1	87
10	Orbit design for space atom-interferometer AIGSO. International Journal of Modern Physics D, 2020, 29, 1940004.	2.1	7
11	Numerical simulation of sky localization for LISA-TAIJI joint observation. Physical Review D, 2020, 102, .	4.7	31
12	Orbit design and thruster requirement for various constant arm space mission concepts for gravitational-wave observation. International Journal of Modern Physics D, 2020, 29, 1940006.	2.1	7
13	An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004.	4.0	10
14	Astrodynamical middle-frequency interferometric gravitational wave observatory AMIGO: Mission concept and orbit design. International Journal of Modern Physics D, 2020, 29, 1940007.	2.1	13
15	Numerical simulation of time delay interferometry for TAIJI and new LISA. Research in Astronomy and Astrophysics, 2019, 19, 058.	1.7	19
16	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
17	Gravitational Wave (GW) Classification, Space GW Detection Sensitivities and AMIGO (Astrodynamical) Tj ETQq1 1.0, 784314, rgBT /Ove	0.3	12
18	Intrinsic mirror noise in Fabry-Pérot based polarimeters: the case for the measurement of vacuum magnetic birefringence. European Physical Journal C, 2018, 78, 1.	3.9	10

#	ARTICLE	IF	CITATIONS
19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
20	Genesis of general relativity " A concise exposition. , 2017, , 85-108.		0
21	Equivalence principles, spacetime structure and the cosmic connection. , 2017, , 265-315.		0
22	Solar-system tests of the relativistic gravity. , 2017, , 371-406.		0
23	Gravitational waves: Classification, methods of detection, sensitivities and sources. , 2017, , 461-504.		0
24	Gravitational wave detection in space. , 2017, , 579-630.		3
25	General relativity and cosmology. , 2017, , 3-17.		1
26	Searches for the Role of Spin and Polarization in Gravity: A Five-Year Update. International Journal of Modern Physics Conference Series, 2016, 40, 1660010.	0.7	12
27	Solar-system tests of the relativistic gravity. International Journal of Modern Physics D, 2016, 25, 1630003.	2.1	14
28	Equivalence principles, spacetime structure and the cosmic connection. International Journal of Modern Physics D, 2016, 25, 1630002.	2.1	7
29	Gravitational wave detection in space. International Journal of Modern Physics D, 2016, 25, 1630001.	2.1	32
30	On spacetime structure and electrodynamics. International Journal of Modern Physics D, 2016, 25, 1603001.	2.1	2
31	Gravitational wave astronomy: the current status. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	26
32	Gravitational waves: Classification, methods of detection, sensitivities and sources. International Journal of Modern Physics D, 2015, 24, 1530031.	2.1	43
33	Orbit optimization and time delay interferometry for inclined ASTROD-GW formation with half-year precession-period. Chinese Physics B, 2015, 24, 059501.	1.4	20
34	Spacetime structure and asymmetric metric from the premetric formulation of electromagnetism. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1297-1303.	2.1	21
35	NEW CONSTRAINTS ON COSMIC POLARIZATION ROTATION FROM THE ACTPol COSMIC MICROWAVE BACKGROUND B-MODE POLARIZATION OBSERVATION AND THE BICEP2 CONSTRAINT UPDATE. Astrophysical Journal, 2015, 805, 107.	4.5	18
36	Quantum gravity: A brief history of ideas and some prospects. International Journal of Modern Physics D, 2015, 24, 1530028.	2.1	33

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37	NEW CONSTRAINTS ON COSMIC POLARIZATION ROTATION FROM B_{lQ} -MODE POLARIZATION IN THE COSMIC MICROWAVE BACKGROUND. <i>Astrophysical Journal</i> , 2014, 792, 35.	4.5	15
38	Dilaton field and cosmic wave propagation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3413-3418.	2.1	16
39	Skewon field and cosmic wave propagation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1217-1223.	2.1	19
40	Numerical simulation of time delay interferometry for a LISA-like mission with the simplification of having only one interferometer. <i>Advances in Space Research</i> , 2013, 51, 198-206.	2.6	20
41	Dark energy, co-evolution of massive black holes with galaxies, and ASTROD-GW. <i>Advances in Space Research</i> , 2013, 51, 525-534.	2.6	16
42	PROTON RADIUS PUZZLE AND LARGE EXTRA DIMENSIONS. <i>Modern Physics Letters A</i> , 2013, 28, 1350094.	1.2	28
43	Numerical simulation of time delay interferometry for eLISA/NGO. <i>Classical and Quantum Gravity</i> , 2013, 30, 065011.	4.0	21
44	Orbit optimization for ASTROD-GW and its time delay interferometry with two arms using CGC ephemeris. <i>Chinese Physics B</i> , 2013, 22, 049501.	1.4	20
45	FOUNDATIONS OF CLASSICAL ELECTRODYNAMICS, EQUIVALENCE PRINCIPLE AND COSMIC INTERACTIONS: A SHORT EXPOSITION AND AN UPDATE. <i>Modern Physics Letters A</i> , 2013, 28, 1340013.	1.2	10
46	FOUNDATIONS OF CLASSICAL ELECTRODYNAMICS, EQUIVALENCE PRINCIPLE AND COSMIC INTERACTIONS: A SHORT EXPOSITION AND AN UPDATE. , 2013, , .		0
47	ASTROD-GW: OVERVIEW AND PROGRESS. <i>International Journal of Modern Physics D</i> , 2013, 22, 1341004.	2.1	68
48	ASTRODYNAMICAL SPACE TEST OF RELATIVITY USING OPTICAL DEVICES I (ASTROD I) " MISSION OVERVIEW. <i>International Journal of Modern Physics D</i> , 2013, 22, 1341003.	2.1	13
49	DEPLOYMENT AND SIMULATION OF THE ASTROD-GW FORMATION. <i>International Journal of Modern Physics D</i> , 2013, 22, 1341005.	2.1	10
50	Astrodynamic Space Test of Relativity using Optical Devices I (ASTROD I)"a class-M fundamental physics mission proposal for cosmic vision 2015"2025: 2010 Update. <i>Experimental Astronomy</i> , 2012, 34, 181-201.	3.7	37
51	Time-delay Interferometry for ASTROD-GW. <i>Chinese Astronomy and Astrophysics</i> , 2012, 36, 211-228.	0.3	18
52	Rotation, the Equivalence Principle, and the Gravity Probe B Experiment. <i>Physical Review Letters</i> , 2011, 107, 051103.	7.8	17
53	Design of ASTROD-GW Orbit. <i>Chinese Astronomy and Astrophysics</i> , 2010, 34, 434-446.	0.3	22
54	Simulation of ASTROD I test mass charging due to solar energetic particles and interplanetary electrons. <i>Advances in Space Research</i> , 2010, 45, 200-207.	2.6	5

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55	Searches for the role of spin and polarization in gravity. Reports on Progress in Physics, 2010, 73, 056901.	20.1	94
56	GRAVITATIONAL WAVES, DARK ENERGY AND INFLATION. Modern Physics Letters A, 2010, 25, 922-935.	1.2	23
57	TESTING RELATIVISTIC GRAVITY AND DETECTING GRAVITATIONAL WAVES IN SPACE. , 2010, , .		1
58	PSEUDOSCALAR-PHOTON INTERACTIONS, AXIONS, NON-MINIMAL EXTENSIONS, AND THEIR EMPIRICAL CONSTRAINTS FROM OBSERVATIONS. , 2010, , .		2
59	COSMIC POLARIZATION ROTATION, COSMOLOGICAL MODELS, AND THE DETECTABILITY OF PRIMORDIAL GRAVITATIONAL WAVES. International Journal of Modern Physics A, 2009, 24, 3493-3500.	1.5	18
60	Super-ASTROD: probing primordial gravitational waves and mapping the outer solar system. Classical and Quantum Gravity, 2009, 26, 075021.	4.0	35
61	Astrodynamical Space Test of Relativity Using Optical Devices I (ASTROD I)â€”A class-M fundamental physics mission proposal for Cosmic Vision 2015â€”2025. Experimental Astronomy, 2009, 23, 491-527.	3.7	30
62	From Equivalence Principles to Cosmology: Cosmic Polarization Rotation, CMB Observation, Neutrino Number Asymmetry, Lorentz Invariance and CPT. Progress of Theoretical Physics Supplement, 2008, 172, 49-60.	0.1	48
63	FURTHER TEST MASS CHARGING SIMULATIONS FOR ASTROD I. International Journal of Modern Physics D, 2008, 17, 965-983.	2.1	11
64	ASTROD AND ASTROD I â€” OVERVIEW AND PROGRESS. International Journal of Modern Physics D, 2008, 17, 921-940.	2.1	69
65	Q & A EXPERIMENT TO SEARCH FOR VACUUM DICHROISM, PSEUDOSCALARâ€”PHOTON INTERACTION AND MILLICHARGED FERMIONS. Modern Physics Letters A, 2007, 22, 2815-2831.	1.2	82
66	ASTROD I: Mission concept and Venus flybys. Acta Astronautica, 2006, 59, 598-607.	3.2	21
67	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. AIP Conference Proceedings, 2006, , .	0.4	19
68	EMPIRICAL FOUNDATIONS OF THE RELATIVISTIC GRAVITY. International Journal of Modern Physics D, 2005, 14, 901-921.	2.1	47
69	Astrodynamical Space Test of Relativity using Optical Devices. Advances in Space Research, 2003, 32, 1437-1441.	2.6	19
70	PICO-WATT AND FEMTO-WATT WEAK-LIGHT PHASE LOCKING. International Journal of Modern Physics D, 2002, 11, 1075-1085.	2.1	32
71	REAL-TIME MOTION CONTROL WITH SUBNANOMETER HETERODYNE INTERFEROMETRY. International Journal of Modern Physics D, 2002, 11, 1087-1099.	2.1	13
72	ASTRODâ€”AN OVERVIEW. International Journal of Modern Physics D, 2002, 11, 947-962.	2.1	56

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73	Separation of the gravitational-wave signals and the solar oscillation signals. AIP Conference Proceedings, 2000, , .	0.4	3
74	ORBIT DESIGN AND ANALYSIS FOR THE ASTROD MISSION CONCEPT. International Journal of Modern Physics D, 2000, 09, 201-214.	2.1	10
75	<title>Progress in mission concept study and laboratory development for the astrodynamical space test of relativity using optical devices(ASTROD)</title>. , 1997, 3116, 105.		10
76	NEW EXPERIMENTAL LIMIT ON THE SPATIAL ANISOTROPY FOR POLARIZED ELECTRONS. Modern Physics Letters A, 1993, 08, 3715-3725.	1.2	4
77	SEARCH FOR ANOMALOUS SPIN-SPIN INTERACTIONS USING A PARAMAGNETIC SALT WITH A DC SQUID. International Journal of Modern Physics A, 1993, 08, 5153-5164.	1.5	6
78	EXPERIMENTAL SEARCH FOR ANOMALOUS SPIN-SPIN INTERACTIONS. Modern Physics Letters A, 1992, 07, 1287-1299.	1.2	10
79	TEST OF QUANTUM ELECTRODYNAMICS USING ULTRA-HIGH SENSITIVE INTERFEROMETERS. Modern Physics Letters A, 1991, 06, 3671-3678.	1.2	14
80	NUCLEAR POLARIZATION AND THE EQUIVALENCE PRINCIPLE. Modern Physics Letters A, 1991, 06, 659-668.	1.2	8
81	THE EQUIVALENCE PRINCIPLE EXPERIMENT FOR SPIN-POLARIZED BODIES. Modern Physics Letters A, 1989, 04, 1597-1603.	1.2	24
82	Conditions for an affine manifold with torsion to have a Riemannâ€“Cartan structure. Mathematical Proceedings of the Cambridge Philosophical Society, 1981, 90, 517-527.	0.4	5
83	Equivalence Principles and Electromagnetism. Physical Review Letters, 1977, 38, 301-304.	7.8	239
84	Foundations of Electromagnetism, Equivalence Principles and Cosmic Interactions. , 0, , .		3