Wei-Tou Ni

List of Publications by Year
in descending order

84 papers	2,638 citations	304743 22 h-index	197818 49 g-index
87 all docs	87 docs citations	87 times ranked	3060 citing authors

#	Article	IF	Citations
1	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
2	Equivalence Principles and Electromagnetism. Physical Review Letters, 1977, 38, 301-304.	7.8	239
3	Searches for the role of spin and polarization in gravity. Reports on Progress in Physics, 2010, 73, 056901.	20.1	94
4	ZAIGA: Zhaoshan long-baseline atom interferometer gravitation antenna. International Journal of Modern Physics D, 2020, 29, 1940005.	2.1	87
5	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
6	ASTROD AND ASTROD I â€” OVERVIEW AND PROGRESS. International Journal of Modern Physics D, 2008, 17, 921-940.	2.1	69
7	ASTROD-GW: OVERVIEW AND PROGRESS. International Journal of Modern Physics D, 2013, 22, 1341004.	2.1	68
8	ASTRODâ€“AN OVERVIEW. International Journal of Modern Physics D, 2002, 11, 947-962.	2.1	56
9	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
10	EMPIRICAL FOUNDATIONS OF THE RELATIVISTIC GRAVITY. International Journal of Modern Physics D, 2005, 14, 901-921.	2.1	47
11	Gravitational waves: Classification, methods of detection, sensitivities and sources. International Journal of Modern Physics D, 2015, 24, 1530031.	2.1	43
12	Astrodynamical Space Test of Relativity using Optical Devices I (ASTROD I)â€”a class-M fundamental physics mission proposal for cosmic vision 2015â€“2025: 2010 Update. Experimental Astronomy, 2012, 34, 181-201.	3.7	37
13	Super-ASTROD: probing primordial gravitational waves and mapping the outer solar system. Classical and Quantum Gravity, 2009, 26, 075021.	4.0	35
14	Quantum gravity: A brief history of ideas and some prospects. International Journal of Modern Physics D, 2015, 24, 1530028.	2.1	33
15	PICO-WATT AND FEMTO-WATT WEAK-LIGHT PHASE LOCKING. International Journal of Modern Physics D, 2002, 11, 1075-1085.	2.1	32
16	Gravitational wave detection in space. International Journal of Modern Physics D, 2016, 25, 1630001.	2.1	32
17	Numerical simulation of sky localization for LISA-TAIJI joint observation. Physical Review D, 2020, 102, .	4.7	31
18	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

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19	PROTON RADIUS PUZZLE AND LARGE EXTRA DIMENSIONS. Modern Physics Letters A, 2013, 28, 1350094.	1.2	28
20	Gravitational wave astronomy: the current status. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	26
21	THE EQUIVALENCE PRINCIPLE EXPERIMENT FOR SPIN-POLARIZED BODIES. Modern Physics Letters A, 1989, 04, 1597-1603.	1.2	24
22	GRAVITATIONAL WAVES, DARK ENERGY AND INFLATION. Modern Physics Letters A, 2010, 25, 922-935.	1.2	23
23	Design of ASTROD-GW Orbit. Chinese Astronomy and Astrophysics, 2010, 34, 434-446.	0.3	22
24	ASTROD I: Mission concept and Venus flybys. Acta Astronautica, 2006, 59, 598-607.	3.2	21
25	Numerical simulation of time delay interferometry for eLISA/NGO. Classical and Quantum Gravity, 2013, 30, 065011.	4.0	21
26	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
27	Numerical simulation of time delay interferometry for a LISA-like mission with the simplification of having only one interferometer. Advances in Space Research, 2013, 51, 198-206.	2.6	20
28	Orbit optimization for ASTROD-GW and its time delay interferometry with two arms using CGC ephemeris. Chinese Physics B, 2013, 22, 049501.	1.4	20
29	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
30	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
31	Astrodynamical Space Test of Relativity using Optical Devices. Advances in Space Research, 2003, 32, 1437-1441.	2.6	19
32	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. AIP Conference Proceedings, 2006, , .	0.4	19
33	Skewon field and cosmic wave propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1217-1223.	2.1	19
34	Numerical simulation of time delay interferometry for TAIJI and new LISA. Research in Astronomy and Astrophysics, 2019, 19, 058.	1.7	19
35	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
36	Time-delay Interferometry for ASTROD-GW. Chinese Astronomy and Astrophysics, 2012, 36, 211-228.	0.3	18

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37	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
38	Rotation, the Equivalence Principle, and the Gravity Probe B Experiment. Physical Review Letters, 2011, 107, 051103.	7.8	17
39	Dark energy, co-evolution of massive black holes with galaxies, and ASTROD-GW. Advances in Space Research, 2013, 51, 525-534.	2.6	16
40	Dilaton field and cosmic wave propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3413-3418.	2.1	16
41	Alternative LISA-TAIJI networks. Physical Review D, 2021, 104, .	4.7	16
42	Joint mass-and-energy test of the equivalence principle at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>â</mml:mo><mml:mo><mm level using atoms with specified mass and internal energy. Physical Review A, 2021, 104, .	2.5	16
43	NEW CONSTRAINTS ON COSMIC POLARIZATION ROTATION FROMB-MODE POLARIZATION IN THE COSMIC MICROWAVE BACKGROUND. Astrophysical Journal, 2014, 792, 35.	4.5	15
44	TEST OF QUANTUM ELECTRODYNAMICS USING ULTRA-HIGH SENSITIVE INTERFEROMETERS. Modern Physics Letters A, 1991, 06, 3671-3678.	1.2	14
45	Solar-system tests of the relativistic gravity. International Journal of Modern Physics D, 2016, 25, 1630003.	2.1	14
46	REAL-TIME MOTION CONTROL WITH SUBNANOMETER HETERODYNE INTERFEROMETRY. International Journal of Modern Physics D, 2002, 11, 1087-1099.	2.1	13
47	ASTRODYNAMICAL SPACE TEST OF RELATIVITY USING OPTICAL DEVICES I (ASTROD I) â€" MISSION OVERVIEW. International Journal of Modern Physics D, 2013, 22, 1341003.	2.1	13
48	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
49	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
50	Gravitational Wave (GW) Classification, Space GW Detection Sensitivities and AMIGO (Astrodynamical) Tj ETQq0 0 0 rgBT /Overlock 10	0.3	12
51	Algorithm for time-delay interferometry numerical simulation and sensitivity investigation. Physical Review D, 2021, 103, .	4.7	12
52	FURTHER TEST MASS CHARGING SIMULATIONS FOR ASTROD I. International Journal of Modern Physics D, 2008, 17, 965-983.	2.1	11
53	EXPERIMENTAL SEARCH FOR ANOMALOUS SPIN-SPIN INTERACTIONS. Modern Physics Letters A, 1992, 07, 1287-1299.	1.2	10
54	<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

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55	ORBIT DESIGN AND ANALYSIS FOR THE ASTROD MISSION CONCEPT. International Journal of Modern Physics D, 2000, 09, 201-214.	2.1	10
56	FOUNDATIONS OF CLASSICAL ELECTRODYNAMICS, EQUIVALENCE PRINCIPLE AND COSMIC INTERACTIONS: A SHORT EXPOSITION AND AN UPDATE. Modern Physics Letters A, 2013, 28, 1340013.	1.2	10
57	DEPLOYMENT AND SIMULATION OF THE ASTROD-GW FORMATION. International Journal of Modern Physics D, 2013, 22, 1341005.	2.1	10
58	Intrinsic mirror noise in Fabryâ€“Perot based polarimeters: the case for the measurement of vacuum magnetic birefringence. European Physical Journal C, 2018, 78, 1.	3.9	10
59	An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004.	4.0	10
60	Self-alignment of a large-area dual-atom-interferometer gyroscope using parameter-decoupled phase-seeking calibrations. Physical Review A, 2021, 103, .	2.5	9
61	NUCLEAR POLARIZATION AND THE EQUIVALENCE PRINCIPLE. Modern Physics Letters A, 1991, 06, 659-668.	1.2	8
62	Equivalence principles, spacetime structure and the cosmic connection. International Journal of Modern Physics D, 2016, 25, 1630002.	2.1	7
63	Orbit design for space atom-interferometer AIGSO. International Journal of Modern Physics D, 2020, 29, 1940004.	2.1	7
64	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
65	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
66	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
67	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
68	Simulation of ASTROD I test mass charging due to solar energetic particles and interplanetary electrons. Advances in Space Research, 2010, 45, 200-207.	2.6	5
69	NEW EXPERIMENTAL LIMIT ON THE SPATIAL ANISOTROPY FOR POLARIZED ELECTRONS. Modern Physics Letters A, 1993, 08, 3715-3725.	1.2	4
70	Performance of the KAGRA detector during the first joint observation with GEOâ€‰600 (O3GK). Progress of Theoretical and Experimental Physics, 2023, 2023, .	6.6	4
71	Separation of the gravitational-wave signals and the solar oscillation signals. AIP Conference Proceedings, 2000, , .	0.4	3
72	Gravitational wave detection in space. , 2017, , 579-630.		3

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73	Foundations of Electromagnetism, Equivalence Principles and Cosmic Interactions. , 0, , .		3
74	On spacetime structure and electrodynamics. International Journal of Modern Physics D, 2016, 25, 1603001.	2.1	2
75	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
76	PSEUDOSCALAR-PHOTON INTERACTIONS, AXIONS, NON-MINIMAL EXTENSIONS, AND THEIR EMPIRICAL CONSTRAINTS FROM OBSERVATIONS. , 2010, , .		2
77	Core noise and GW sensitivities of AMIGO. International Journal of Modern Physics D, 2022, 31, .	2.1	2
78	General relativity and cosmology. , 2017, , 3-17.		1
79	TESTING RELATIVISTIC GRAVITY AND DETECTING GRAVITATIONAL WAVES IN SPACE. , 2010, , .		1
80	FOUNDATIONS OF CLASSICAL ELECTRODYNAMICS, EQUIVALENCE PRINCIPLE AND COSMIC INTERACTIONS: A SHORT EXPOSITION AND AN UPDATE. , 2013, , .		0
81	Genesis of general relativity â€" A concise exposition. , 2017, , 85-108.		0
82	Equivalence principles, spacetime structure and the cosmic connection. , 2017, , 265-315.		0
83	Solar-system tests of the relativistic gravity. , 2017, , 371-406.		0
84	Gravitational waves: Classification, methods of detection, sensitivities and sources. , 2017, , 461-504.		0