List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619.	31.4	825
2	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
3	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451
4	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
5	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
6	Near-Field Radiative Heat Transfer between Macroscopic Planar Surfaces. Physical Review Letters, 2011, 107, 014301.	7.8	300
7	Black hole evaporation without information loss. Classical and Quantum Gravity, 1994, 11, 621-647.	4.0	282
8	Self-force via a Greenâ \in Ms function decomposition. Physical Review D, 2003, 67, .	4.7	258
9	Charged black hole in a grand canonical ensemble. Physical Review D, 1990, 42, 3376-3385.	4.7	233
10	Mode stability of the Kerr black hole. Journal of Mathematical Physics, 1989, 30, 1301-1305.	1.1	206
11	Action Principle and Partition Function for the Gravitational Field in Black-Hole Topologies. Physical Review Letters, 1988, 61, 1336-1339.	7.8	163
12	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
13	First law of binary black hole mechanics in general relativity and post-Newtonian theory. Physical Review D, 2012, 85, .	4.7	120
14	High-order post-Newtonian fit of the gravitational self-force for circular orbits in the Schwarzschild geometry. Physical Review D, 2010, 81, .	4.7	113
15	Newtonian gravity measurements impose constraints on unification theories. Nature, 1981, 291, 636-638.	27.8	105
16	Thermodynamic ensembles and gravitation. Classical and Quantum Gravity, 1990, 7, 1433-1444.	4.0	93
17	Self-force of a scalar field for circular orbits about a Schwarzschild black hole. Physical Review D, 2003, 67, .	4.7	90
18	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461.	4.5	90

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19	Post-Newtonian and numerical calculations of the gravitational self-force for circular orbits in the Schwarzschild geometry. Physical Review D, 2010, 81, .	4.7	86
20	Long gravitational-wave transients and associated detection strategies for a network of terrestrial interferometers. Physical Review D, 2011, 83, .	4.7	70
21	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
22	Approximate Killing vectors onS2. Physical Review D, 2007, 76, .	4.7	64
23	Prompt gravity signal induced by the 2011 Tohoku-Oki earthquake. Nature Communications, 2016, 7, 13349.	12.8	61
24	Finding high-order analytic post-Newtonian parameters from a high-precision numerical self-force calculation. Physical Review D, 2014, 89, .	4.7	60
25	Scalar field self-force effects on orbits about a Schwarzschild black hole. Physical Review D, 2004, 70,	4.7	57
26	Reconstruction of black hole metric perturbations from the Weyl curvature. Physical Review D, 2002, 66, .	4.7	53
27	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
28	Phase Effects in the Diffraction of Light: Beyond the Grating Equation. Physical Review Letters, 2005, 95, 013901.	7.8	51
29	Transient gravity perturbations induced by earthquake rupture. Geophysical Journal International, 2015, 201, 1416-1425.	2.4	47
30	Hamiltonian spacetime dynamics with a spherical null-dust shell. Physical Review D, 1998, 57, 2279-2298.	4.7	43
31	Hamiltonian thermodynamics of the Schwarzschild black hole. Physical Review D, 1995, 51, 5583-5599.	4.7	42
32	How effective is machine learning to detect long transient gravitational waves from neutron stars in a real search?. Physical Review D, 2019, 100, .	4.7	38
33	Density of states for the gravitational field in black-hole topologies. Physical Review D, 1987, 36, 3614-3625.	4.7	37
34	Experimental mathematics meets gravitational self-force. Physical Review D, 2015, 92, .	4.7	31
35	Metric reconstruction from Weyl scalars. Classical and Quantum Gravity, 2005, 22, S589-S604.	4.0	29
36	Linewidth-broadened Fabry–Perot cavities within future gravitational wave detectors. Classical and Quantum Gravity, 2004, 21, S1031-S1036.	4.0	28

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37	Method to search for long duration gravitational wave transients from isolated neutron stars using the generalized frequency-Hough transform. Physical Review D, 2018, 98, .	4.7	28
38	Half-integral conservative post-Newtonian approximations in the redshift factor of black hole binaries. Physical Review D, 2014, 89, .	4.7	26
39	Gauge invariant perturbations of the Schwarzschild spacetime. Classical and Quantum Gravity, 2017, 34, 174001.	4.0	25
40	Mode stability on the real axis. Journal of Mathematical Physics, 2017, 58, .	1.1	23
41	Black holes and gravitational thermodynamics. Classical and Quantum Gravity, 1990, 7, 15-18.	4.0	21
42	High-order half-integral conservative post-Newtonian coefficients in the redshift factor of black hole binaries. Physical Review D, 2014, 90, .	4.7	21
43	Normal mode simulation of prompt elastogravity signals induced by an earthquake rupture. Geophysical Journal International, 2019, 216, 935-947.	2.4	20
44	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
45	Earthquake Early Warning Using Future Generation Gravity Strainmeters. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,889.	3.4	19
46	Energy spectrum of a quantum black hole. Classical and Quantum Gravity, 1992, 9, 457-473.	4.0	18
47	On the existence of radiation gauges in Petrov type II spacetimes. Classical and Quantum Gravity, 2007, 24, 2367-2388.	4.0	18
48	Controlling unboundedness in the gravitational path integral. Physical Review D, 1994, 49, 907-916.	4.7	12
49	Optimal combination of signals from colocated gravitational wave interferometers for use in searches for a stochastic background. Physical Review D, 2004, 70, .	4.7	11
50	CONSTRAINING THE R-MODE SATURATION AMPLITUDE FROM A HYPOTHETICAL DETECTION OF R-MODE GRAVITATIONAL WAVES FROM A NEWBORN NEUTRON STAR: SENSITIVITY STUDY. Astrophysical Journal, 2015, 810, 27.	4.5	11
51	Sensitivity study using machine learning algorithms on simulated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi> -mode gravitational wave signals from newborn neutron stars. Physical Review D, 2019, 99, .</mml:math 	4.7	11
52	Hamiltonian reduction for massive fields coupled to sources. Journal of Mathematical Physics, 1989, 30, 1877-1892.	1.1	10
53	Gravitational self-force regularization in the Regge-Wheeler and easy gauges. Physical Review D, 2019, 99, .	4.7	10
54	Supergravity black holes, Love numbers, and harmonic coordinates. Physical Review D, 2022, 105, .	4.7	10

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#	Article	IF	CITATIONS
55	Field quantization for accelerated frames in flat and curved space-times. Physical Review D, 1986, 34, 1056-1071.	4.7	9
56	Memory effect or cosmic string? Classifying gravitational-wave bursts with Bayesian inference. Physical Review D, 2020, 102, .	4.7	8
57	Self-force of a static electric charge near a Schwarzschild star. Physical Review D, 2007, 76, .	4.7	7
58	Classical tools for antipodal identification in Reissner–Nordström spacetime. Classical and Quantum Gravity, 2020, 37, 185006.	4.0	6
59	Compatibility Complex for Black Hole Spacetimes. Communications in Mathematical Physics, 2021, 384, 1585-1614.	2.2	6
60	First-order velocity memory effect from compact binary coalescing sources. Physical Review D, 2021, 104, .	4.7	6
61	Raising and lowering operators of spin-weighted spheroidal harmonics. General Relativity and Gravitation, 2016, 48, 1.	2.0	5
62	Positive Energy Functional for Massless Scalars in Rotating Black Hole Backgrounds of Maximal Ungauged Supergravity. Physical Review Letters, 2020, 124, 231102.	7.8	5
63	The role of gravitation in thermal physics (and thermo field theory). Physica A: Statistical Mechanics and Its Applications, 1989, 158, 437-447.	2.6	4
64	High-Accuracy Comparison Between the Post-Newtonian and Self-Force Dynamics of Black-Hole Binaries. , 2009, , 415-442.		4
65	RADIATION REACTION AND THE PRINCIPLE OF EQUIVALENCE. International Journal of Modern Physics D, 2003, 12, 1709-1713.	2.1	3
66	Identifying the singular field for self-force evaluation. Classical and Quantum Gravity, 2005, 22, S661-S679.	4.0	3
67	Summary of session B3: analytic approximations, perturbation methods and their applications. Classical and Quantum Gravity, 2008, 25, 114020.	4.0	3
68	The Relation of Solutions of Different ODEs is a Commutation Relation. North-Holland Mathematics Studies, 1984, 92, 561-570.	0.2	2
69	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
70	Noise Characterization for Laser Interferometer Gravitational Wave Detectors. General Relativity and Gravitation, 2000, 32, 411-423.	2.0	1
71	On the geometry of Petrov type II spacetimes. Classical and Quantum Gravity, 2021, 38, 135023.	4.0	1
79	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and		1

Advanced Virgo. , 2016, 19, 1.

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73	Stability of Black Holes. , 1999, , 17-32.		1
74	Connection between Einstein Equations, Nonlinear Sigma Models, and Self-Dual Yang-Mills Theory. Annals of the New York Academy of Sciences, 1986, 470, 389-389.	3.8	0
75	NEW RESULTS IN BLACK HOLE PHYSICS. International Journal of Modern Physics D, 1994, 03, 317-321.	2.1	0