

Bernard F Whiting

List of Publications by Year in descending order

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75
papers

6,465
citations

126907

33
h-index

91884

69
g-index

77
all docs

77
docs citations

77
times ranked

5809
citing authors

#	ARTICLE	IF	CITATIONS
1	Supergravity black holes, Love numbers, and harmonic coordinates. <i>Physical Review D</i> , 2022, 105, .	4.7	10
2	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
3	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	4.5	144
4	Compatibility Complex for Black Hole Spacetimes. <i>Communications in Mathematical Physics</i> , 2021, 384, 1585-1614.	2.2	6
5	On the geometry of Petrov type II spacetimes. <i>Classical and Quantum Gravity</i> , 2021, 38, 135023.	4.0	1
6	First-order velocity memory effect from compact binary coalescing sources. <i>Physical Review D</i> , 2021, 104, .	4.7	6
7	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	26.7	447
8	Classical tools for antipodal identification in Reissner-Nordström spacetime. <i>Classical and Quantum Gravity</i> , 2020, 37, 185006.	4.0	6
9	Positive Energy Functional for Massless Scalars in Rotating Black Hole Backgrounds of Maximal Ungauged Supergravity. <i>Physical Review Letters</i> , 2020, 124, 231102.	7.8	5
10	Memory effect or cosmic string? Classifying gravitational-wave bursts with Bayesian inference. <i>Physical Review D</i> , 2020, 102, .	4.7	8
11	Gravitational self-force regularization in the Regge-Wheeler and easy gauges. <i>Physical Review D</i> , 2019, 99, .	4.7	10
12	How effective is machine learning to detect long transient gravitational waves from neutron stars in a real search?. <i>Physical Review D</i> , 2019, 100, .	4.7	38
13	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
14	Sensitivity study using machine learning algorithms on simulated r -mode gravitational wave signals from newborn neutron stars. <i>Physical Review D</i> , 2019, 99, .	4.7	11
15	Normal mode simulation of prompt elastogravity signals induced by an earthquake rupture. <i>Geophysical Journal International</i> , 2019, 216, 935-947.	2.4	20
16	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	26.7	808
17	Method to search for long duration gravitational wave transients from isolated neutron stars using the generalized frequency-Hough transform. <i>Physical Review D</i> , 2018, 98, .	4.7	28
18	Earthquake Early Warning Using Future Generation Gravity Strainmeters. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,889.	3.4	19

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19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
20	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
21	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
22	Gauge invariant perturbations of the Schwarzschild spacetime. Classical and Quantum Gravity, 2017, 34, 174001.	4.0	25
23	Mode stability on the real axis. Journal of Mathematical Physics, 2017, 58, .	1.1	23
24	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
25	Prompt gravity signal induced by the 2011 Tohoku-Oki earthquake. Nature Communications, 2016, 7, 13349.	12.8	61
26	Raising and lowering operators of spin-weighted spheroidal harmonics. General Relativity and Gravitation, 2016, 48, 1.	2.0	5
27	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
28	Experimental mathematics meets gravitational self-force. Physical Review D, 2015, 92, .	4.7	31
29	Transient gravity perturbations induced by earthquake rupture. Geophysical Journal International, 2015, 201, 1416-1425.	2.4	47
30	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
31	Finding high-order analytic post-Newtonian parameters from a high-precision numerical self-force calculation. Physical Review D, 2014, 89, .	4.7	60
32	Half-integral conservative post-Newtonian approximations in the redshift factor of black hole binaries. Physical Review D, 2014, 89, .	4.7	26
33	High-order half-integral conservative post-Newtonian coefficients in the redshift factor of black hole binaries. Physical Review D, 2014, 90, .	4.7	21
34	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619.	31.4	825
35	First law of binary black hole mechanics in general relativity and post-Newtonian theory. Physical Review D, 2012, 85, .	4.7	120
36	Long gravitational-wave transients and associated detection strategies for a network of terrestrial interferometers. Physical Review D, 2011, 83, .	4.7	70

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37	Near-Field Radiative Heat Transfer between Macroscopic Planar Surfaces. <i>Physical Review Letters</i> , 2011, 107, 014301.	7.8	300
38	Post-Newtonian and numerical calculations of the gravitational self-force for circular orbits in the Schwarzschild geometry. <i>Physical Review D</i> , 2010, 81, .	4.7	86
39	High-order post-Newtonian fit of the gravitational self-force for circular orbits in the Schwarzschild geometry. <i>Physical Review D</i> , 2010, 81, .	4.7	113
40	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , 2010, 715, 1453-1461.	4.5	90
41	High-Accuracy Comparison Between the Post-Newtonian and Self-Force Dynamics of Black-Hole Binaries. , 2009, , 415-442.		4
42	Summary of session B3: analytic approximations, perturbation methods and their applications. <i>Classical and Quantum Gravity</i> , 2008, 25, 114020.	4.0	3
43	Self-force of a static electric charge near a Schwarzschild star. <i>Physical Review D</i> , 2007, 76, .	4.7	7
44	On the existence of radiation gauges in Petrov type II spacetimes. <i>Classical and Quantum Gravity</i> , 2007, 24, 2367-2388.	4.0	18
45	Approximate Killing vectors on S^2 . <i>Physical Review D</i> , 2007, 76, .	4.7	64
46	Identifying the singular field for self-force evaluation. <i>Classical and Quantum Gravity</i> , 2005, 22, S661-S679.	4.0	3
47	Phase Effects in the Diffraction of Light: Beyond the Grating Equation. <i>Physical Review Letters</i> , 2005, 95, 013901.	7.8	51
48	Metric reconstruction from Weyl scalars. <i>Classical and Quantum Gravity</i> , 2005, 22, S589-S604.	4.0	29
49	Scalar field self-force effects on orbits about a Schwarzschild black hole. <i>Physical Review D</i> , 2004, 70, .	4.7	57
50	Optimal combination of signals from colocated gravitational wave interferometers for use in searches for a stochastic background. <i>Physical Review D</i> , 2004, 70, .	4.7	11
51	Linewidth-broadened Fabry-Pérot cavities within future gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2004, 21, S1031-S1036.	4.0	28
52	Self-force via a Green's function decomposition. <i>Physical Review D</i> , 2003, 67, .	4.7	258
53	Self-force of a scalar field for circular orbits about a Schwarzschild black hole. <i>Physical Review D</i> , 2003, 67, .	4.7	90
54	RADIATION REACTION AND THE PRINCIPLE OF EQUIVALENCE. <i>International Journal of Modern Physics D</i> , 2003, 12, 1709-1713.	2.1	3

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55	Reconstruction of black hole metric perturbations from the Weyl curvature. <i>Physical Review D</i> , 2002, 66, .	4.7	53
56	Noise Characterization for Laser Interferometer Gravitational Wave Detectors. <i>General Relativity and Gravitation</i> , 2000, 32, 411-423.	2.0	1
57	Stability of Black Holes. , 1999, , 17-32.		1
58	Hamiltonian spacetime dynamics with a spherical null-dust shell. <i>Physical Review D</i> , 1998, 57, 2279-2298.	4.7	43
59	Hamiltonian thermodynamics of the Schwarzschild black hole. <i>Physical Review D</i> , 1995, 51, 5583-5599.	4.7	42
60	NEW RESULTS IN BLACK HOLE PHYSICS. <i>International Journal of Modern Physics D</i> , 1994, 03, 317-321.	2.1	0
61	Controlling unboundedness in the gravitational path integral. <i>Physical Review D</i> , 1994, 49, 907-916.	4.7	12
62	Black hole evaporation without information loss. <i>Classical and Quantum Gravity</i> , 1994, 11, 621-647.	4.0	282
63	Energy spectrum of a quantum black hole. <i>Classical and Quantum Gravity</i> , 1992, 9, 457-473.	4.0	18
64	Black holes and gravitational thermodynamics. <i>Classical and Quantum Gravity</i> , 1990, 7, 15-18.	4.0	21
65	Thermodynamic ensembles and gravitation. <i>Classical and Quantum Gravity</i> , 1990, 7, 1433-1444.	4.0	93
66	Charged black hole in a grand canonical ensemble. <i>Physical Review D</i> , 1990, 42, 3376-3385.	4.7	233
67	Hamiltonian reduction for massive fields coupled to sources. <i>Journal of Mathematical Physics</i> , 1989, 30, 1877-1892.	1.1	10
68	The role of gravitation in thermal physics (and thermo field theory). <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 158, 437-447.	2.6	4
69	Mode stability of the Kerr black hole. <i>Journal of Mathematical Physics</i> , 1989, 30, 1301-1305.	1.1	206
70	Action Principle and Partition Function for the Gravitational Field in Black-Hole Topologies. <i>Physical Review Letters</i> , 1988, 61, 1336-1339.	7.8	163
71	Density of states for the gravitational field in black-hole topologies. <i>Physical Review D</i> , 1987, 36, 3614-3625.	4.7	37
72	Connection between Einstein Equations, Nonlinear Sigma Models, and Self-Dual Yang-Mills Theory. <i>Annals of the New York Academy of Sciences</i> , 1986, 470, 389-389.	3.8	0

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73	Field quantization for accelerated frames in flat and curved space-times. Physical Review D, 1986, 34, 1056-1071.	4.7	9
74	The Relation of Solutions of Different ODEs is a Commutation Relation. North-Holland Mathematics Studies, 1984, 92, 561-570.	0.2	2
75	Newtonian gravity measurements impose constraints on unification theories. Nature, 1981, 291, 636-638.	27.8	105