

# Barry Wardell

## List of Publications by Year in descending order

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48  
papers

2,046  
citations

257357

24  
h-index

233338

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g-index

49  
all docs

49  
docs citations

49  
times ranked

1540  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-force calculations with a spinning secondary. <i>Physical Review D</i> , 2022, 105, .	1.6	19
2	Gravitational Perturbations of Rotating Black Holes in Lorenz Gauge. <i>Physical Review Letters</i> , 2022, 128, 151101.	2.9	11
3	Hyperboloidal method for frequency-domain self-force calculations. <i>Physical Review D</i> , 2022, 105, .	1.6	8
4	Black Hole Perturbation Theory and Gravitational Self-Force. , 2022, , 1411-1529.		1
5	Separable electromagnetic perturbations of rotating black holes. <i>Physical Review D</i> , 2021, 103, .	1.6	3
6	Characteristic formulation of the Regge-Wheeler and Zerilli Green functions. <i>Physical Review D</i> , 2021, 103, .	1.6	3
7	Probing the nature of black holes: Deep in the mHz gravitational-wave sky. <i>Experimental Astronomy</i> , 2021, 51, 1385-1416.	1.6	29
8	Gravitational-Wave Energy Flux for Compact Binaries through Second Order in the Mass Ratio. <i>Physical Review Letters</i> , 2021, 127, 151102.	2.9	43
9	Black Hole Perturbation Theory and Gravitational Self-Force. , 2021, , 1-119.		16
10	Dissipation in extreme mass-ratio binaries with a spinning secondary. <i>Physical Review D</i> , 2020, 102, .	1.6	22
11	Second-Order Self-Force Calculation of Gravitational Binding Energy in Compact Binaries. <i>Physical Review Letters</i> , 2020, 124, 021101.	2.9	70
12	Excitation of Kerr quasinormal modes in extreme-mass-ratio inspirals. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
13	Gravitational self-force regularization in the Regge-Wheeler and easy gauges. <i>Physical Review D</i> , 2019, 99, .	1.6	10
14	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	1.5	451
15	Gravitational backreaction on a cosmic string: Formalism. <i>Physical Review D</i> , 2019, 99, .	1.6	12
16	Regularized calculation of the retarded Green function in a Schwarzschild spacetime. <i>Physical Review D</i> , 2019, 100, .	1.6	6
17	Accelerated motion and the self-force in Schwarzschild spacetime. <i>Classical and Quantum Gravity</i> , 2018, 35, 194001.	1.5	13
18	Self-force on a scalar charge in a circular orbit about a Reissner-Nordström black hole. <i>Physical Review D</i> , 2018, 98, .	1.6	3

#	ARTICLE	IF	CITATIONS
19	Spin-orbit precession along eccentric orbits for extreme mass ratio black hole binaries and its effective-one-body transcription. <i>Physical Review D</i> , 2017, 96, .	1.6	33
20	Scalar self-force for highly eccentric equatorial orbits in Kerr spacetime. <i>Physical Review D</i> , 2017, 95, .	1.6	17
21	Science with the space-based interferometer eLISA: Supermassive black hole binaries. <i>Physical Review D</i> , 2016, 93, .	1.6	321
22	Analytical high-order post-Newtonian expansions for spinning extreme mass ratio binaries. <i>Physical Review D</i> , 2016, 93, .	1.6	40
23	Second-order perturbation theory: The problem of infinite mode coupling. <i>Physical Review D</i> , 2016, 94, .	1.6	29
24	Applying the effective-source approach to frequency-domain self-force calculations: Lorenz-gauge gravitational perturbations. <i>Physical Review D</i> , 2015, 92, .	1.6	39
25	Analytical high-order post-Newtonian expansions for extreme mass ratio binaries. <i>Physical Review D</i> , 2015, 92, .	1.6	71
26	Octupolar invariants for compact binaries on quasicircular orbits. <i>Physical Review D</i> , 2015, 92, .	1.6	23
27	Tidal invariants for compact binaries on quasicircular orbits. <i>Physical Review D</i> , 2015, 91, .	1.6	60
28	Self-force: Computational Strategies. <i>Fundamental Theories of Physics</i> , 2015, , 487-522.	0.1	19
29	Applying the effective-source approach to frequency-domain self-force calculations. <i>Physical Review D</i> , 2014, 89, .	1.6	27
30	High-order expansions of the Detweiler-Whiting singular field in Kerr spacetime. <i>Physical Review D</i> , 2014, 89, .	1.6	26
31	Gravitational self-torque and spin precession in compact binaries. <i>Physical Review D</i> , 2014, 89, .	1.6	77
32	Self-force via Green functions and worldline integration. <i>Physical Review D</i> , 2014, 89, .	1.6	31
33	Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration. <i>Classical and Quantum Gravity</i> , 2013, 31, 025012.	1.5	123
34	Scalar self-force for eccentric orbits around a Schwarzschild black hole. <i>Physical Review D</i> , 2013, 88, .	1.6	9
35	Self-force and Green function in Schwarzschild spacetime via quasinormal modes and branch cut. <i>Physical Review D</i> , 2013, 88, .	1.6	33
36	Self-Consistent Orbital Evolution of a Particle around a Schwarzschild Black Hole. <i>Physical Review Letters</i> , 2012, 108, 191102.	2.9	50

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37	High-order expansions of the Detweiler-Whiting singular field in Schwarzschild spacetime. Physical Review D, 2012, 86, .	1.6	47
38	Generic effective source for scalar self-force calculations. Physical Review D, 2012, 85, .	1.6	23
39	A TRANSPORT EQUATION APPROACH TO GREEN FUNCTIONS AND SELF-FORCE CALCULATIONS. , 2012, , .		0
40	METHOD OF MATCHED EXPANSIONS AND THE SINGULARITY STRUCTURE OF THE GREEN FUNCTION. , 2012, , .		0
41	Self-force via $m$ -mode regularization and $2$ -mode regularization and $1$ -mode regularization and $D$ evolution. II. Scalar-field implementation on Kerr spacetime. Physical Review D, 2011, 84, .	1.6	36
42	Effective source approach to self-force calculations. Classical and Quantum Gravity, 2011, 28, 134010.	1.5	27
43	Transport equation approach to calculations of Hadamard Green functions and non-coincident DeWitt coefficients. Physical Review D, 2011, 84, .	1.6	25
44	Falloff of the Weyl scalars in binary black hole spacetimes. Physical Review D, 2011, 84, .	1.6	7
45	Padé approximants of the Green function in spherically symmetric spacetimes. Physical Review D, 2009, 79, .	1.6	26
46	Self-force calculations with matched expansions and quasinormal mode sums. Physical Review D, 2009, 79, .	1.6	50
47	Quasilocal contribution to the scalar self-force: Nongeodesic motion. Physical Review D, 2009, 79, .	1.6	24
48	Quasilocal contribution to the scalar self-force: Geodesic motion. Physical Review D, 2008, 77, .	1.6	23