Scott A Hughes

List of Publications by Year
in descending order

40	2,964	136950	182427
papers	citations	32 h-index	51 g-index

52	52	52	1230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of circular, nonequatorial orbits of Kerr black holes due to gravitational-wave emission. Physical Review D, 2000, 61, .	4.7	223
2	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
3	Measuring gravitational waves from binary black hole coalescences. II. The wavesâ€™ information and its extraction, with and without templates. Physical Review D, 1998, 57, 4566-4587.	4.7	191
4	Gravitational wave snapshots of generic extreme mass ratio inspirals. Physical Review D, 2006, 73, .	4.7	169
5	Evolution of circular, nonequatorial orbits of Kerr black holes due to gravitational-wave emission. II. Inspiral trajectories and gravitational waveforms. Physical Review D, 2001, 64, .	4.7	164
6	Towards a formalism for mapping the spacetimes of massive compact objects: Bumpy black holes and their orbits. Physical Review D, 2004, 69, .	4.7	152
7	â€œKludgeâ€•gravitational waveforms for a test-body orbiting a Kerr black hole. Physical Review D, 2007, 75, .	4.7	151
8	Rotating black hole orbit functionals in the frequency domain. Physical Review D, 2004, 69, .	4.7	106
9	Spacetime and orbits of bumpy black holes. Physical Review D, 2010, 81, .	4.7	104
10	Towards adiabatic waveforms for inspiral into Kerr black holes: A new model of the source for the time domain perturbation equation. Physical Review D, 2007, 76, .	4.7	87
11	Gravitational Radiation Reaction and Inspiral Waveforms in the Adiabatic Limit. Physical Review Letters, 2005, 94, 221101.	7.8	79
12	Extreme mass-ratio inspirals in the effective-one-body approach: Quasicircular, equatorial orbits around a spinning black hole. Physical Review D, 2011, 83, .	4.7	75
13	Computing inspirals in Kerr in the adiabatic regime: I. The scalar case. Classical and Quantum Gravity, 2005, 22, S801-S846.	4.0	73
14	Towards adiabatic waveforms for inspiral into Kerr black holes. II. Dynamical sources and generic orbits. Physical Review D, 2008, 78, .	4.7	64
15	Modeling multipolar gravitational-wave emission from small mass-ratio mergers. Physical Review D, 2012, 85, .	4.7	63
16	Tidal Resonance in Extreme Mass-Ratio Inspirals. Physical Review Letters, 2019, 123, 101103.	7.8	56
17	Binary black hole merger gravitational waves and recoil in the large mass ratio limit. Physical Review D, 2010, 81, .	4.7	54
18	Small mass plunging into a Kerr black hole: Anatomy of the inspiral-merger-ringdown waveforms. Physical Review D, 2014, 90, .	4.7	52

#	Article	IF	Citations
19	Rapid Generation of Fully Relativistic Extreme-Mass-Ratio-Inspiral Waveform Templates for LISA Data Analysis. Physical Review Letters, 2021, 126, 051102.	7.8	52
20	Fast extreme-mass-ratio-inspiral waveforms: New tools for millihertz gravitational-wave data analysis. Physical Review D, 2021, 104, .	4.7	52
21	Tidal heating as a discriminator for horizons in extreme mass ratio inspirals. Physical Review D, 2020, 101, .	4.7	48
22	Adiabatic waveforms for extreme mass-ratio inspirals via multivoice decomposition in time and frequency. Physical Review D, 2021, 103, .	4.7	44
23	Measuring parameters of massive black hole binaries with partially aligned spins. Physical Review D, 2011, 84, .	4.7	43
24	Modeling the horizon-absorbed gravitational flux for equatorial-circular orbits in Kerr spacetime. Physical Review D, 2013, 88, .	4.7	42
25	Resonantly enhanced and diminished strong-field gravitational-wave fluxes. Physical Review D, 2014, 89, .	4.7	41
26	Learning about Black Hole Binaries from their Ringdown Spectra. Physical Review Letters, 2019, 123, 161101.	7.8	36
27	Census of transient orbital resonances encountered during binary inspiral. Physical Review D, 2014, 89, .	4.7	32
28	Exciting black hole modes via misaligned coalescences. I. Inspiral, transition, and plunge trajectories using a generalized Ori-Thorne procedure. Physical Review D, 2019, 100, .	4.7	31
29	Exciting black hole modes via misaligned coalescences. II. The mode content of late-time coalescence waveforms. Physical Review D, 2019, 100, .	4.7	30
30	Probing the nature of black holes: Deep in the mHz gravitational-wave sky. Experimental Astronomy, 2021, 51, 1385-1416.	3.7	29
31	Strong-field tidal distortions of rotating black holes: Formalism and results for circular, equatorial orbits. Physical Review D, 2014, 90, .	4.7	28
32	Bound orbits of a slowly evolving black hole. Physical Review D, 2019, 100, .	4.7	13
33	Precisely computing bound orbits of spinning bodies around black holes. II. Generic orbits. Physical Review D, 2022, 105, .	4.7	11
34	Precisely computing bound orbits of spinning bodies around black holes. I. General framework and results for nearly equatorial orbits. Physical Review D, 2022, 105, .	4.7	10
35	Measuring quasinormal mode amplitudes with misaligned binary black hole ringdowns. Physical Review D, 2022, 105, .	4.7	7
36	Black hole binary inspiral and trajectory dominance. Physical Review D, 2013, 88, .	4.7	5

#	Article	IF	Citations
37	Adiabatic and post-adiabatic approaches to extreme mass ratio inspiral. , 2017, , .		4
38	Falloff of radiated energy in black hole spacetimes. Physical Review D, 2010, 82, .	4.7	3
39	Divergences in gravitational-wave emission and absorption from extreme mass ratio binaries. Physical Review D, 2021, 104, .	4.7	3
40	Strong-field tidal distortions of rotating black holes. III. Embeddings in hyperbolic three-space. Physical Review D, 2017, 96, .	4.7	2