Michael PÃ¼rrer

List of Publications by Year
in descending order

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30 papers	5,382 citations	201674 27 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	3654 citing authors

#	Article	IF	Citations
1	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
2	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
3	Aligned-spin neutron-starâ€“black-hole waveform model based on the effective-one-body approach and numerical-relativity simulations. Physical Review D, 2020, 102, .	4.7	51
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	Multipolar effective-one-body waveforms for precessing binary black holes: Construction and validation. Physical Review D, 2020, 102, .	4.7	182
6	Bayesian inference for compact binary coalescences with <scp>bilby</scp>: validation and application to the first LIGOâ€“Virgo gravitational-wave transient catalogue. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3295-3319.	4.4	213
7	Frequency-domain reduced-order model of aligned-spin effective-one-body waveforms with higher-order modes. Physical Review D, 2020, 101, .	4.7	66
8	Regression methods in waveform modeling: a comparative study. Classical and Quantum Gravity, 2020, 37, 075012.	4.0	26
9	Gravitational waveform accuracy requirements for future ground-based detectors. Physical Review Research, 2020, 2, .	3.6	81
10	Surrogate model for an aligned-spin effective-one-body waveform model of binary neutron star inspirals using Gaussian process regression. Physical Review D, 2019, 100, .	4.7	57
11	Matter imprints in waveform models for neutron star binaries: Tidal and self-spin effects. Physical Review D, 2019, 99, .	4.7	144
12	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
13	Improved effective-one-body model of spinning, nonprecessing binary black holes for the era of gravitational-wave astrophysics with advanced detectors. Physical Review D, 2017, 95, .	4.7	401
14	Statistical gravitational waveform models: What to simulate next?. Physical Review D, 2017, 96, .	4.7	40
15	Measuring neutron star tidal deformability with Advanced LIGO: A Bayesian analysis of neutron star-black hole binary observations. Physical Review D, 2017, 95, .	4.7	25
16	Hierarchical data-driven approach to fitting numerical relativity data for nonprecessing binary black holes with an application to final spin and radiated energy. Physical Review D, 2017, 95, .	4.7	123
17	Fast and accurate inference on gravitational waves from precessing compact binaries. Physical Review D, 2016, 94, .	4.7	116
18	Frequency-domain gravitational waves from nonprecessing black-hole binaries. I. New numerical waveforms and anatomy of the signal. Physical Review D, 2016, 93, .	4.7	511

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19	Frequency-domain gravitational waves from nonprecessing black-hole binaries. II. A phenomenological model for the advanced detector era. Physical Review D, 2016, 93, .	4.7	701
20	Frequency domain reduced order model of aligned-spin effective-one-body waveforms with generic mass ratios and spins. Physical Review D, 2016, 93, .	4.7	125
21	Impact of gravitational radiation higher order modes on single aligned-spin gravitational wave searches for binary black holes. Physical Review D, 2016, 93, .	4.7	66
22	Can we measure individual black-hole spins from gravitational-wave observations?. Physical Review D, 2016, 93, .	4.7	71
23	Measuring Intermediate-Mass Black-Hole Binaries with Advanced Gravitational Wave Detectors. Physical Review Letters, 2015, 115, 141101.	7.8	39
24	Gravitational-wave observations of binary black holes: Effect of nonquadrupole modes. Physical Review D, 2014, 90, .	4.7	80
25	Frequency-domain reduced order models for gravitational waves from aligned-spin compact binaries. Classical and Quantum Gravity, 2014, 31, 195010.	4.0	149
26	Simple Model of Complete Precessing Black-Hole-Binary Gravitational Waveforms. Physical Review Letters, 2014, 113, 151101.	7.8	498
27	Testing the validity of the single-spin approximation in inspiral-merger-ringdown waveforms. Physical Review D, 2013, 88, .	4.7	33
28	Addendum to â€˜The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binariesâ€™. Classical and Quantum Gravity, 2013, 30, 199401.	4.0	28
29	The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries. Classical and Quantum Gravity, 2012, 29, 124001.	4.0	106
30	An efficient iterative method to reduce eccentricity in numerical-relativity simulations of compact binary inspiral. Physical Review D, 2012, 85, .	4.7	31