

# Michael PÃ¼rrer

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Frequency-domain gravitational waves from nonprecessing black-hole binaries. II. A phenomenological model for the advanced detector era. <i>Physical Review D</i> , 2016, 93, .	4.7	701
3	Frequency-domain gravitational waves from nonprecessing black-hole binaries. I. New numerical waveforms and anatomy of the signal. <i>Physical Review D</i> , 2016, 93, .	4.7	511
4	Simple Model of Complete Precessing Black-Hole-Binary Gravitational Waveforms. <i>Physical Review Letters</i> , 2014, 113, 151101.	7.8	498
5	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
6	Improved effective-one-body model of spinning, nonprecessing binary black holes for the era of gravitational-wave astrophysics with advanced detectors. <i>Physical Review D</i> , 2017, 95, .	4.7	401
7	Bayesian inference for compact binary coalescences with <code>bilby</code> : validation and application to the first LIGO–Virgo gravitational-wave transient catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3295-3319.	4.4	213
8	Multipolar effective-one-body waveforms for precessing binary black holes: Construction and validation. <i>Physical Review D</i> , 2020, 102, .	4.7	182
9	Frequency-domain reduced order models for gravitational waves from aligned-spin compact binaries. <i>Classical and Quantum Gravity</i> , 2014, 31, 195010.	4.0	149
10	Matter imprints in waveform models for neutron star binaries: Tidal and self-spin effects. <i>Physical Review D</i> , 2019, 99, .	4.7	144
11	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
12	Frequency domain reduced order model of aligned-spin effective-one-body waveforms with generic mass ratios and spins. <i>Physical Review D</i> , 2016, 93, .	4.7	125
13	Hierarchical data-driven approach to fitting numerical relativity data for nonprecessing binary black holes with an application to final spin and radiated energy. <i>Physical Review D</i> , 2017, 95, .	4.7	123
14	Fast and accurate inference on gravitational waves from precessing compact binaries. <i>Physical Review D</i> , 2016, 94, .	4.7	116
15	The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries. <i>Classical and Quantum Gravity</i> , 2012, 29, 124001.	4.0	106
16	Gravitational waveform accuracy requirements for future ground-based detectors. <i>Physical Review Research</i> , 2020, 2, .	3.6	81
17	Gravitational-wave observations of binary black holes: Effect of nonquadrupole modes. <i>Physical Review D</i> , 2014, 90, .	4.7	80
18	Can we measure individual black-hole spins from gravitational-wave observations?. <i>Physical Review D</i> , 2016, 93, .	4.7	71

#	ARTICLE	IF	CITATIONS
19	Impact of gravitational radiation higher order modes on single aligned-spin gravitational wave searches for binary black holes. <i>Physical Review D</i> , 2016, 93, .	4.7	66
20	Frequency-domain reduced-order model of aligned-spin effective-one-body waveforms with higher-order modes. <i>Physical Review D</i> , 2020, 101, .	4.7	66
21	Surrogate model for an aligned-spin effective-one-body waveform model of binary neutron star inspirals using Gaussian process regression. <i>Physical Review D</i> , 2019, 100, .	4.7	57
22	Aligned-spin neutron-starâ€“black-hole waveform model based on the effective-one-body approach and numerical-relativity simulations. <i>Physical Review D</i> , 2020, 102, .	4.7	51
23	Statistical gravitational waveform models: What to simulate next?. <i>Physical Review D</i> , 2017, 96, .	4.7	40
24	Measuring Intermediate-Mass Black-Hole Binaries with Advanced Gravitational Wave Detectors. <i>Physical Review Letters</i> , 2015, 115, 141101.	7.8	39
25	Testing the validity of the single-spin approximation in inspiral-merger-ringdown waveforms. <i>Physical Review D</i> , 2013, 88, .	4.7	33
26	An efficient iterative method to reduce eccentricity in numerical-relativity simulations of compact binary inspiral. <i>Physical Review D</i> , 2012, 85, .	4.7	31
27	Addendum to â€“The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binariesâ€“ <sup>TM</sup> . <i>Classical and Quantum Gravity</i> , 2013, 30, 199401.	4.0	28
28	Regression methods in waveform modeling: a comparative study. <i>Classical and Quantum Gravity</i> , 2020, 37, 075012.	4.0	26
29	Measuring neutron star tidal deformability with Advanced LIGO: A Bayesian analysis of neutron star-black hole binary observations. <i>Physical Review D</i> , 2017, 95, .	4.7	25
30	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