

Frank Ohme

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

4,607
citations

30
h-index

47
g-index

47
ext. papers

5,820
ext. citations

6.6
avg, IF

5.51
L-index

#	Paper	IF	Citations
45	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
44	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,	4.9	470
43	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016 , 19, 1	32.5	393
42	Simple model of complete precessing black-hole-binary gravitational waveforms. <i>Physical Review Letters</i> , 2014 , 113, 151101	7.4	357
41	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,	4.9	319
40	Inspiral-merger-ringdown waveforms for black-hole binaries with nonprecessing spins. <i>Physical Review Letters</i> , 2011 , 106, 241101	7.4	310
39	Matching post-Newtonian and numerical relativity waveforms: Systematic errors and a new phenomenological model for nonprecessing black hole binaries. <i>Physical Review D</i> , 2010 , 82,	4.9	274
38	Science with the space-based interferometer eLISA: Supermassive black hole binaries. <i>Physical Review D</i> , 2016 , 93,	4.9	224
37	Towards models of gravitational waveforms from generic binaries: II. Modelling precession effects with a single effective precession parameter. <i>Physical Review D</i> , 2015 , 91,	4.9	174
36	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
35	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
34	First Higher-Multipole Model of Gravitational Waves from Spinning and Coalescing Black-Hole Binaries. <i>Physical Review Letters</i> , 2018 , 120, 161102	7.4	95
33	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	3.3	94
32	Matter imprints in waveform models for neutron star binaries: Tidal and self-spin effects. <i>Physical Review D</i> , 2019 , 99,	4.9	88
31	Will black hole-neutron star binary inspirals tell us about the neutron star equation of state?. <i>Physical Review D</i> , 2011 , 84,	4.9	83
30	DISTINGUISHING COMPACT BINARY POPULATION SYNTHESIS MODELS USING GRAVITATIONAL WAVE OBSERVATIONS OF COALESCING BINARY BLACK HOLES. <i>Astrophysical Journal</i> , 2015 , 810, 58	4.7	74
29	Phenomenological model for the gravitational-wave signal from precessing binary black holes with two-spin effects. <i>Physical Review D</i> , 2019 , 100,	4.9	74

28	Wormholes and trumpets: Schwarzschild spacetime for the moving-puncture generation. <i>Physical Review D</i> , 2008 , 78,	4.9	71
27	Including higher order multipoles in gravitational-wave models for precessing binary black holes. <i>Physical Review D</i> , 2020 , 101,	4.9	64
26	On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , 2019 , 100,	4.9	61
25	Simulations of black-hole binaries with unequal masses or nonprecessing spins: Accuracy, physical properties, and comparison with post-Newtonian results. <i>Physical Review D</i> , 2010 , 82,	4.9	54
24	Can we measure individual black-hole spins from gravitational-wave observations?. <i>Physical Review D</i> , 2016 , 93,	4.9	51
23	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	4.7	46
22	PROSPECTS FOR JOINT GRAVITATIONAL-WAVE AND ELECTROMAGNETIC OBSERVATIONS OF NEUTRON-STAR-BLACK-HOLE COALESCING BINARIES. <i>Astrophysical Journal Letters</i> , 2014 , 791, L7	7.9	43
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. <i>Astrophysical Journal</i> , 2017 , 841, 89	4.7	42
20	Parameter estimation on compact binary coalescences with abruptly terminating gravitational waveforms. <i>Classical and Quantum Gravity</i> , 2014 , 31, 155005	3.3	41
19	Reliability of complete gravitational waveform models for compact binary coalescences. <i>Physical Review D</i> , 2011 , 84,	4.9	37
18	Length requirements for numerical-relativity waveforms. <i>Physical Review D</i> , 2010 , 82,	4.9	33
17	Statistical and systematic errors for gravitational-wave inspiral signals: A principal component analysis. <i>Physical Review D</i> , 2013 , 88,	4.9	32
16	Relevance of tidal effects and post-merger dynamics for binary neutron star parameter estimation. <i>Physical Review D</i> , 2018 , 98,	4.9	32
15	Analytical meets numerical relativity: status of complete gravitational waveform models for binary black holes. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124002	3.3	30
14	Addendum to "The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries" <i>Classical and Quantum Gravity</i> , 2013 , 30, 199401	3.3	21
13	Finite tidal effects in GW170817: Observational evidence or model assumptions?. <i>Physical Review D</i> , 2019 , 100,	4.9	19
12	Regression methods in waveform modeling: a comparative study. <i>Classical and Quantum Gravity</i> , 2020 , 37, 075012	3.3	16
11	Detection of gravitational-wave signals from binary neutron star mergers using machine learning. <i>Physical Review D</i> , 2020 , 102,	4.9	15

10	Constraining the Neutron Star Radius with Joint Gravitational-wave and Short Gamma-Ray Burst Observations of Neutron Star-Black Hole Coalescing Binaries. <i>Astrophysical Journal</i> , 2019 , 877, 94	4.7	14
9	Enhancing gravitational waveform models through dynamic calibration. <i>Physical Review D</i> , 2019 , 99,	4.9	6
8	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
7	Numerical inside view of hypermassive remnant models for GW170817. <i>Physical Review D</i> , 2021 , 104,	4.9	2
6	Training strategies for deep learning gravitational-wave searches. <i>Physical Review D</i> , 2022 , 105,	4.9	1
5	Adding eccentricity to quasicircular binary-black-hole waveform models. <i>Physical Review D</i> , 2021 , 103,	4.9	1
4			
3	Interplay of spin-precession and higher harmonics in the parameter estimation of binary black holes. <i>Physical Review D</i> , 2022 , 105,	4.9	1
2	Testing General Relativity with Gravitational Waves: An Overview. <i>Universe</i> , 2021 , 7, 497	2.5	0
1	Schwarze Löcher und andere Mysterien. <i>Physik in Unserer Zeit</i> , 2021 , 52, 222-229	0.1	