

Frank Ohme

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7416987/frank-ohme-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Training strategies for deep learning gravitational-wave searches. <i>Physical Review D</i> , 2022 , 105,	4.9	1
44	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
43	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
42	Adding eccentricity to quasicircular binary-black-hole waveform models. <i>Physical Review D</i> , 2021 , 103,	4.9	1
41	Numerical inside view of hypermassive remnant models for GW170817. <i>Physical Review D</i> , 2021 , 104,	4.9	2
40	Schwarze Löcher und andere Mysterien. <i>Physik in Unserer Zeit</i> , 2021 , 52, 222-229	0.1	
39	Testing General Relativity with Gravitational Waves: An Overview. <i>Universe</i> , 2021 , 7, 497	2.5	0
38	Regression methods in waveform modeling: a comparative study. <i>Classical and Quantum Gravity</i> , 2020 , 37, 075012	3.3	16
37	Including higher order multipoles in gravitational-wave models for precessing binary black holes. <i>Physical Review D</i> , 2020 , 101,	4.9	64
36	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
35	Detection of gravitational-wave signals from binary neutron star mergers using machine learning. <i>Physical Review D</i> , 2020 , 102,	4.9	15
34	Enhancing gravitational waveform models through dynamic calibration. <i>Physical Review D</i> , 2019 , 99,	4.9	6
33	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
32	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
31	On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , 2019 , 100,	4.9	61
30	Finite tidal effects in GW170817: Observational evidence or model assumptions?. <i>Physical Review D</i> , 2019 , 100,	4.9	19
29	Matter imprints in waveform models for neutron star binaries: Tidal and self-spin effects. <i>Physical Review D</i> , 2019 , 99,	4.9	88

28	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
27	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
26	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
25	Relevance of tidal effects and post-merger dynamics for binary neutron star parameter estimation. <i>Physical Review D</i> , 2018 , 98,	4.9	32
24	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
23	Science with the space-based interferometer eLISA: Supermassive black hole binaries. <i>Physical Review D</i> , 2016 , 93,	4.9	224
22	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
21	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
20	Can we measure individual black-hole spins from gravitational-wave observations?. <i>Physical Review D</i> , 2016 , 93,	4.9	51
19	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
18	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
17			
16	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
15	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
14	Simple model of complete precessing black-hole-binary gravitational waveforms. <i>Physical Review Letters</i> , 2014 , 113, 151101	7.4	357
13	Parameter estimation on compact binary coalescences with abruptly terminating gravitational waveforms. <i>Classical and Quantum Gravity</i> , 2014 , 31, 155005	3.3	41
12	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
11	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

10	Statistical and systematic errors for gravitational-wave inspiral signals: A principal component analysis. <i>Physical Review D</i> , 2013 , 88,	4.9	32
9	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
8	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
7	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
6	Reliability of complete gravitational waveform models for compact binary coalescences. <i>Physical Review D</i> , 2011 , 84,	4.9	37
5	Inspiral-merger-ringdown waveforms for black-hole binaries with nonprecessing spins. <i>Physical Review Letters</i> , 2011 , 106, 241101	7.4	310
4	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
3	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
2	Length requirements for numerical-relativity waveforms. <i>Physical Review D</i> , 2010 , 82,	4.9	33
1	Wormholes and trumpets: Schwarzschild spacetime for the moving-puncture generation. <i>Physical Review D</i> , 2008 , 78,	4.9	71