# Frank Ohme

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 46 papers | 6,850 citations | 136950 32 h-index | 254184 43 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 4394 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Training strategies for deep learning gravitational-wave searches. Physical Review D, 2022, 105, . | 4.7 | 14 |
| 2 | Interplay of spin-precession and higher harmonics in the parameter estimation of binary black holes. Physical Review D, 2022, 105, . | 4.7 | 15 |
| 3 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 6.6 | 20 |
| 4 | 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 |
| 5 | Adding eccentricity to quasicircular binary-black-hole waveform models. Physical Review D, 2021, 103, . | 4.7 | 18 |
| 6 | Numerical inside view of hypermassive remnant models for GW170817. Physical Review D, 2021, 104, . | 4.7 | 9 |
| 7 | Testing General Relativity with Gravitational Waves: An Overview. Universe, 2021, 7, 497. | 2.5 | 14 |
| 8 | 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 |
| 9 | Detection of gravitational-wave signals from binary neutron star mergers using machine learning. Physical Review D, 2020, 102, . | 4.7 | 34 |
| 10 | Regression methods in waveform modeling: a comparative study. Classical and Quantum Gravity, 2020, 37, 075012. | 4.0 | 26 |
| 11 | Including higher order multipoles in gravitational-wave models for precessing binary black holes. Physical Review D, 2020, 101, . | 4.7 | 122 |
| 12 | Phenomenological model for the gravitational-wave signal from precessing binary black holes with two-spin effects. Physical Review D, 2019, 100, . | 4.7 | 136 |
| 13 | Enhancing gravitational waveform models through dynamic calibration. Physical Review D, 2019, 99, . | 4.7 | 6 |
| 14 | Constraining the Neutron Star Radius with Joint Gravitational-wave and Short Gamma-Ray Burst Observations of Neutron Starâ€“Black Hole Coalescing Binaries. Astrophysical Journal, 2019, 877, 94. | 4.5 | 17 |
| 15 | On the properties of the massive binary black hole merger GW170729. Physical Review D, 2019, 100, . | 4.7 | 82 |
| 16 | Finite tidal effects in GW170817: Observational evidence or model assumptions?. Physical Review D, 2019, 100, . | 4.7 | 27 |
| 17 | Matter imprints in waveform models for neutron star binaries: Tidal and self-spin effects. Physical Review D, 2019, 99, . | 4.7 | 144 |
| 18 | First Higher-Multipole Model of Gravitational Waves from Spinning and Coalescing Black-Hole Binaries. Physical Review Letters, 2018, 120, 161102. | 7.8 | 161 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Relevance of tidal effects and post-merger dynamics for binary neutron star parameter estimation. Physical Review D, 2018, 98, . | 4.7 | 46 |
| 21 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1. | | 2 |
| 22 | Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89. | 4.5 | 52 |
| 23 | Can we measure individual black-hole spins from gravitational-wave observations?. , 2017, , . | | 0 |
| 24 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001. | 4.0 | 225 |
| 25 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1. | 26.7 | 427 |
| 26 | Science with the space-based interferometer eLISA: Supermassive black hole binaries. Physical Review D, 2016, 93, . | 4.7 | 321 |
| 27 | 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 |
| 28 | 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 |
| 29 | Can we measure individual black-hole spins from gravitational-wave observations?. Physical Review D, 2016, 93, . | 4.7 | 71 |
| 30 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1. | | 1 |
| 31 | Towards models of gravitational waveforms from generic binaries: II. Modelling precession effects with a single effective precession parameter. Physical Review D, 2015, 91, . | 4.7 | 250 |
| 32 | DISTINGUISHING COMPACT BINARY POPULATION SYNTHESIS MODELS USING GRAVITATIONAL WAVE OBSERVATIONS OF COALESCING BINARY BLACK HOLES. Astrophysical Journal, 2015, 810, 58. | 4.5 | 90 |
| 33 | Parameter estimation on compact binary coalescences with abruptly terminating gravitational waveforms. Classical and Quantum Gravity, 2014, 31, 155005. | 4.0 | 49 |
| 34 | PROSPECTS FOR JOINT GRAVITATIONAL-WAVE AND ELECTROMAGNETIC OBSERVATIONS OF NEUTRON-STAR-BLACK-HOLE COALESCING BINARIES. Astrophysical Journal Letters, 2014, 791, L7. | 8.3 | 50 |
| 35 | Simple Model of Complete Precessing Black-Hole-Binary Gravitational Waveforms. Physical Review Letters, 2014, 113, 151101. | 7.8 | 498 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Statistical and systematic errors for gravitational-wave inspiral signals: A principal component analysis. Physical Review D, 2013, 88, . | 4.7 | 40 |
| 38 | 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 |
| 39 | Analytical meets numerical relativity: status of complete gravitational waveform models for binary black holes. Classical and Quantum Gravity, 2012, 29, 124002. | 4.0 | 34 |
| 40 | Will black hole-neutron star binary inspirals tell us about the neutron star equation of state?. Physical Review D, 2011, 84, . | 4.7 | 112 |
| 41 | Reliability of complete gravitational waveform models for compact binary coalescences. Physical Review D, 2011, 84, . | 4.7 | 43 |
| 42 | Inspiral-Merger-Ringdown Waveforms for Black-Hole Binaries with Nonprecessing Spins. Physical Review Letters, 2011, 106, 241101. | 7.8 | 420 |
| 43 | Matching post-Newtonian and numerical relativity waveforms: Systematic errors and a new phenomenological model for nonprecessing black hole binaries. Physical Review D, 2010, 82, . | 4.7 | 352 |
| 44 | Simulations of black-hole binaries with unequal masses or nonprecessing spins: Accuracy, physical properties, and comparison with post-Newtonian results. Physical Review D, 2010, 82, . | 4.7 | 59 |
| 45 | Length requirements for numerical-relativity waveforms. Physical Review D, 2010, 82, . | 4.7 | 36 |
| 46 | Wormholes and trumpets: Schwarzschild spacetime for the moving-puncture generation. Physical Review D, 2008, 78, . | 4.7 | 82 |