

## 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.

61 papers	3,660 citations	24 h-index	60 g-index
64 ext. papers	4,729 ext. citations	7.1 avg, IF	5.48 L-index

#	Paper	IF	Citations
61	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , <b>2013</b> , 7, 613-619	33.9	572
60	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2018</b> , 21, 3	32.5	543
59	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , <b>2016</b> , 19, 1	32.5	393
58	The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 235, 37	8	295
57	The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 47	4.7	209
56	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , <b>2016</b> , 33,	3.3	155
55	Deep Learning for real-time gravitational wave detection and parameter estimation: Results with Advanced LIGO data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 64-70	4.2	144
54	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2020</b> , 23, 3	32.5	144
53	Deep neural networks to enable real-time multimessenger astrophysics. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	100
52	Eccentric, nonspinning, inspiral, Gaussian-process merger approximant for the detection and characterization of eccentric binary black hole mergers. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	79
51	Complete waveform model for compact binaries on eccentric orbits. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	73
50	Accurate and efficient waveforms for compact binaries on eccentric orbits. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	67
49	Classification and unsupervised clustering of LIGO data with Deep Transfer Learning. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	65
48	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 116	4.7	58
47	Effect of eccentricity on binary neutron star searches in advanced LIGO. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	54
46	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , <b>2021</b> , 909, 218	4.7	46
45	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600209	2.6	45

44	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> , <b>2017</b> , 841, 89	4.7	42
43	Influence of conservative corrections on parameter estimation for extreme-mass-ratio inspirals. <i>Physical Review D</i> , <b>2009</b> , 79,	4.9	40
42	Proposed search for the detection of gravitational waves from eccentric binary black holes. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	39
41	Gravitational wave denoising of binary black hole mergers with deep learning. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135081	4.2	39
40	Detection of eccentric supermassive black hole binaries with pulsar timing arrays: Signal-to-noise ratio calculations. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	35
39	Enabling real-time multi-messenger astrophysics discoveries with deep learning. <i>Nature Reviews Physics</i> , <b>2019</b> , 1, 600-608	23.6	28
38	Importance of including small body spin effects in the modelling of extreme and intermediate mass-ratio inspirals. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	26
37	Deep learning at scale for the construction of galaxy catalogs in the Dark Energy Survey. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 248-258	4.2	23
36	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. <i>Astrophysical Journal</i> , <b>2020</b> , 893, 112	4.7	23
35	DETECTING ECCENTRIC SUPERMASSIVE BLACK HOLE BINARIES WITH PULSAR TIMING ARRAYS: RESOLVABLE SOURCE STRATEGIES. <i>Astrophysical Journal</i> , <b>2016</b> , 817, 70	4.7	23
34	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. <i>Astrophysical Journal</i> , <b>2020</b> , 889, 38	4.7	22
33	Intermediate-mass-ratio inspirals in the Einstein Telescope. I. Signal-to-noise ratio calculations. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	22
32	Fusing numerical relativity and deep learning to detect higher-order multipole waveforms from eccentric binary black hole mergers. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	20
31	Intermediate-mass-ratio inspirals in the Einstein Telescope. II. Parameter estimation errors. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	19
30	Deep transfer learning for star cluster classification: I. application to the PHANGS-BIST survey. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 493, 3178-3193	4.3	16
29	Deep learning ensemble for real-time gravitational wave detection of spinning binary black hole mergers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 812, 136029	4.2	15
28	Deep learning for gravitational wave forecasting of neutron star mergers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 816, 136185	4.2	14
27	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. <i>Astrophysical Journal</i> , <b>2020</b> , 890, 108	4.7	13

26	Importance of including small body spin effects in the modelling of intermediate mass-ratio inspirals. II. Accurate parameter extraction of strong sources using higher-order spin effects. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	13
25	Physics of eccentric binary black hole mergers: A numerical relativity perspective. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	12
24	Artificial neural network subgrid models of 2D compressible magnetohydrodynamic turbulence. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	10
23	Gravitational Waves from Accreting Neutron Stars Undergoing Common-envelope Inspiral. <i>Astrophysical Journal</i> , <b>2018</b> , 857, 38	4.7	10
22	Characterization of numerical relativity waveforms of eccentric binary black hole mergers. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	10
21	Accurate modeling of intermediate-mass-ratio inspirals: Exploring the form of the self-force in the intermediate-mass-ratio regime. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	10
20	Physics-inspired deep learning to characterize the signal manifold of quasi-circular, spinning, non-precessing binary black hole mergers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 808, 135628	4.2	10
19	Convergence of artificial intelligence and high performance computing on NSF-supported cyberinfrastructure. <i>Journal of Big Data</i> , <b>2020</b> , 7,	11.7	9
18	Accelerated, scalable and reproducible AI-driven gravitational wave detection. <i>Nature Astronomy</i> ,	12.1	9
17	Supporting High-Performance and High-Throughput Computing for Experimental Science. <i>Computing and Software for Big Science</i> , <b>2019</b> , 3, 1	6	7
16	Star cluster classification in the PHANGS-HST survey: Comparison between human and machine learning approaches. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	7
15	Python Open source Waveform Extractor (POWER): an open source, Python package to monitor and post-process numerical relativity simulations. <i>Classical and Quantum Gravity</i> , <b>2018</b> , 35, 027002	3.3	6
14	Probing neutron star structure via f-mode oscillations and damping in dynamical spacetime models. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	5
13	BOSS-LDG: A Novel Computational Framework That Brings Together Blue Waters, Open Science Grid, Shifter and the LIGO Data Grid to Accelerate Gravitational Wave Discovery <b>2017</b> ,		5
12	Self-forced evolutions of an implicit rotating source: A natural framework to model comparable and intermediate mass-ratio systems from inspiral through ringdown. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	5
11	Deep Learning for Cardiologist-Level Myocardial Infarction Detection in Electrocardiograms. <i>IFMBE Proceedings</i> , <b>2021</b> , 341-355	0.2	5
10	Deep Learning with Quantized Neural Networks for Gravitational-wave Forecasting of Eccentric Compact Binary Coalescence. <i>Astrophysical Journal</i> , <b>2021</b> , 919, 82	4.7	5
9	Statistically-informed deep learning for gravitational wave parameter estimation. <i>Machine Learning: Science and Technology</i> , <b>2022</b> , 3, 015007	5.1	3

8	Confluence of Artificial Intelligence and High Performance Computing for Accelerated, Scalable and Reproducible Gravitational Wave Detection		3
7	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA <b>2018</b> , 21, 1		2
6	Advances in Machine and Deep Learning for Modeling and Real-Time Detection of Multi-messenger Sources <b>2021</b> , 1-27		2
5	Interpretable AI forecasting for numerical relativity waveforms of quasicircular, spinning, nonprecessing binary black hole mergers. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	1
4	Observation of eccentric binary black hole mergers with second and third generation gravitational wave detector networks. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	1
3	A FAIR and AI-ready Higgs boson decay dataset.. <i>Scientific Data</i> , <b>2022</b> , 9, 31	8.2	1
2	Inference-Optimized AI and High Performance Computing for Gravitational Wave Detection at Scale.. <i>Frontiers in Artificial Intelligence</i> , <b>2022</b> , 5, 828672	3	0
1	Advances in Machine and Deep Learning for Modeling and Real-Time Detection of Multi-messenger Sources <b>2022</b> , 1793-1819		