

# Koutarou Kyutoku

## List of Publications by Year in descending order

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76  
papers

6,367  
citations

70961

41  
h-index

88477

70  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3454  
citing authors

#	ARTICLE	IF	CITATIONS
1	How many extragalactic stellar mass binary black holes will be detected by space gravitational-wave interferometers?. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4669-4675.	1.6	3
2	General-relativistic neutrino-radiation magnetohydrodynamic simulation of seconds-long black hole-neutron star mergers. Physical Review D, 2022, 106, .	1.6	40
3	Reducing orbital eccentricity in initial data of black hole–neutron star binaries in the puncture framework. Physical Review D, 2021, 103, .	1.6	2
4	Properties of the remnant disk and the dynamical ejecta produced in low-mass black hole-neutron star mergers. Physical Review D, 2021, 103, .	1.6	12
5	Coalescence of black hole–neutron star binaries. Living Reviews in Relativity, 2021, 24, 1.	8.2	29
6	Sub-radian-accuracy gravitational waves from coalescing binary neutron stars in numerical relativity. II. Systematic study on the equation of state, binary mass, and mass ratio. Physical Review D, 2020, 101, .	1.6	31
7	Viscous evolution of a massive disk surrounding stellar-mass black holes in full general relativity. Physical Review D, 2020, 102, .	1.6	35
8	On the Possibility of GW190425 Being a Black Hole–Neutron Star Binary Merger. Astrophysical Journal Letters, 2020, 890, L4.	3.0	53
9	r-process Enrichment in the Galactic Halo Characterized by Nucleosynthesis Variation in the Ejecta of Coalescing Neutron Star Binaries. Astrophysical Journal, 2020, 889, 119.	1.6	7
10	Mass ejection from disks surrounding a low-mass black hole: Viscous neutrino-radiation hydrodynamics simulation in full general relativity. Physical Review D, 2020, 101, .	1.6	77
11	Reanalysis of the binary neutron star mergers GW170817 and GW190425 using numerical-relativity calibrated waveform models. Physical Review Research, 2020, 2, .	1.3	17
12	Postmerger Mass Ejection of Low-mass Binary Neutron Stars. Astrophysical Journal, 2020, 901, 122.	1.6	66
13	Revisiting the Lower Bound on Tidal Deformability Derived by AT 2017gfo. Astrophysical Journal Letters, 2019, 876, L31.	3.0	109
14	Systematic effects from black hole-neutron star waveform model uncertainties on the neutron star equation of state. Physical Review D, 2019, 99, .	1.6	8
15	The origin of polarization in kilonovae and the case of the gravitational-wave counterpart AT 2017gfo. Nature Astronomy, 2019, 3, 99-106.	4.2	29
16	How to detect the shortest period binary pulsars in the era of LISA. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2615-2620.	1.6	16
17	Discrepancy in tidal deformability of GW170817 between the Advanced LIGO twin detectors. Physical Review Research, 2019, 1, .	1.3	13
18	Frequency-domain gravitational waveform models for inspiraling binary neutron stars. Physical Review D, 2018, 97, .	1.6	51

#	ARTICLE	IF	CITATIONS
19	Neutrino transport in black hole-neutron star binaries: Neutrino emission and dynamical mass ejection. <i>Physical Review D</i> , 2018, 97, .	1.6	57
20	Extracting the orbital axis from gravitational waves of precessing binary systems. <i>Physical Review D</i> , 2018, 97, .	1.6	0
21	Detectability of thermal neutrinos from binary neutron-star mergers and implications for neutrino physics. <i>Physical Review D</i> , 2018, 97, .	1.6	28
22	Nucleosynthesis in Neutron Star Mergers. , 2018, , .		0
23	Prospects of the local Hubble parameter measurement using gravitational waves from double neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4133-4139.	1.6	13
24	Global simulations of strongly magnetized remnant massive neutron stars formed in binary neutron star mergers. <i>Physical Review D</i> , 2018, 97, .	1.6	135
25	Forecasting Tidal Disruption Events for Binary Black Holes with an Outer Tertiary. <i>Physical Review Letters</i> , 2017, 118, 151101.	2.9	1
26	Gravitational-wave cosmography with LISA and the Hubble tension. <i>Physical Review D</i> , 2017, 95, .	1.6	41
27	Sub-radian-accuracy gravitational waveforms of coalescing binary neutron stars in numerical relativity. <i>Physical Review D</i> , 2017, 96, .	1.6	72
28	Modeling GW170817 based on numerical relativity and its implications. <i>Physical Review D</i> , 2017, 96, .	1.6	355
29	Concise estimate of the expected number of detections for stellar-mass binary black holes by eLISA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 2177-2183.	1.6	34
30	Measurability of the tidal deformability by gravitational waves from coalescing binary neutron stars. <i>Physical Review D</i> , 2016, 93, .	1.6	83
31	Dynamical mass ejection from the merger of asymmetric binary neutron stars: Radiation-hydrodynamics study in general relativity. <i>Physical Review D</i> , 2016, 93, .	1.6	218
32	Effects of Neutron-Star Dynamic Tides on Gravitational Waveforms within the Effective-One-Body Approach. <i>Physical Review Letters</i> , 2016, 116, 181101.	2.9	204
33	MODELS OF KILONOVA/MACRONOVA EMISSION FROM BLACK HOLE“NEUTRON STAR MERGERS. <i>Astrophysical Journal</i> , 2016, 825, 52.	1.6	140
34	THE UNREASONABLE WEAKNESS OF R-PROCESS COSMIC RAYS IN THE NEUTRON-STAR-MERGER NUCLEOSYNTHESIS SCENARIO. <i>Astrophysical Journal</i> , 2016, 827, 83.	1.6	11
35	Black hole-neutron star binary merger: Dependence on black hole spin orientation and equation of state. <i>Physical Review D</i> , 2015, 92, .	1.6	91
36	Dynamical mass ejection from black hole-neutron star binaries. <i>Physical Review D</i> , 2015, 92, .	1.6	140

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37	High resolution magnetohydrodynamic simulation of black hole-neutron star merger: Mass ejection and short gamma ray bursts. <i>Physical Review D</i> , 2015, 92, .	1.6	120
38	Gravitational-wave cutoff frequencies of tidally disruptive neutron star-black hole binary mergers. <i>Physical Review D</i> , 2015, 92, .	1.6	37
39	Aligned spin neutron star-black hole mergers: A gravitational waveform amplitude model. <i>Physical Review D</i> , 2015, 92, .	1.6	40
40	Efficient magnetic-field amplification due to the Kelvin-Helmholtz instability in binary neutron star mergers. <i>Physical Review D</i> , 2015, 92, .	1.6	165
41	Exploring tidal effects of coalescing binary neutron stars in numerical relativity. II. Long-term simulations. <i>Physical Review D</i> , 2015, 91, .	1.6	56
42	Dynamical mass ejection from binary neutron star mergers: Radiation-hydrodynamics study in general relativity. <i>Physical Review D</i> , 2015, 91, .	1.6	243
43	RADIOACTIVELY POWERED EMISSION FROM BLACK HOLE-NEUTRON STAR MERGERS. <i>Astrophysical Journal</i> , 2014, 780, 31.	1.6	116
44	Nucleosynthesis in the ejecta of neutron star mergers. , 2014, , .		0
45	Pre-merger localization of eccentric compact binary coalescences with second-generation gravitational-wave detector networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1934-1942.	1.6	12
46	High-energy radiation from remnants of neutron star binary mergers. <i>Physical Review D</i> , 2014, 89, .	1.6	32
47	Extracting equation of state parameters from black hole-neutron star mergers: Aligned-spin black holes and a preliminary waveform model. <i>Physical Review D</i> , 2014, 89, .	1.6	114
48	Reducing orbital eccentricity in initial data of binary neutron stars. <i>Physical Review D</i> , 2014, 90, .	1.6	53
49	High resolution numerical relativity simulations for the merger of binary magnetized neutron stars. <i>Physical Review D</i> , 2014, 90, .	1.6	167
50	Effective no-hair relations for neutron stars and quark stars: Relativistic results. <i>Physical Review D</i> , 2014, 89, .	1.6	101
51	PRODUCTION OF ALL THE $r$ -PROCESS NUCLIDES IN THE DYNAMICAL EJECTA OF NEUTRON STAR MERGERS. <i>Astrophysical Journal Letters</i> , 2014, 789, L39.	3.0	491
52	Anisotropic mass ejection from black hole-neutron star binaries: Diversity of electromagnetic counterparts. <i>Physical Review D</i> , 2013, 88, .	1.6	105
53	Exploring tidal effects of coalescing binary neutron stars in numerical relativity. <i>Physical Review D</i> , 2013, 87, .	1.6	75
54	Remnant massive neutron stars of binary neutron star mergers: Evolution process and gravitational waveform. <i>Physical Review D</i> , 2013, 88, .	1.6	246

#	ARTICLE	IF	CITATIONS
55	Nonspinning black hole-neutron star mergers: A model for the amplitude of gravitational waveforms. <i>Physical Review D</i> , 2013, 88, .	1.6	27
56	Mass ejection from the merger of binary neutron stars. <i>Physical Review D</i> , 2013, 87, .	1.6	414
57	Matter effects on binary neutron star waveforms. <i>Physical Review D</i> , 2013, 88, .	1.6	238
58	PROGENITOR MODELS OF THE ELECTROMAGNETIC TRANSIENT ASSOCIATED WITH THE SHORT GAMMA RAY BURST 130603B. <i>Astrophysical Journal Letters</i> , 2013, 778, L16.	3.0	113
59	Methods of Simulations. <i>Springer Theses</i> , 2013, , 67-81.	0.0	0
60	The Merger of Nonspinning Black Hole–Neutron Star Binaries. <i>Springer Theses</i> , 2013, , 93-114.	0.0	0
61	Diagnostics for Numerical Simulations. <i>Springer Theses</i> , 2013, , 83-92.	0.0	0
62	Computing Initial Conditions. <i>Springer Theses</i> , 2013, , 49-66.	0.0	0
63	Gravitational waves, neutrino emissions and effects of hyperons in binary neutron star mergers. <i>Classical and Quantum Gravity</i> , 2012, 29, 124003.	1.5	50
64	Current status of numerical-relativity simulations in Kyoto. <i>Progress of Theoretical and Experimental Physics</i> , 2012, 2012, .	1.8	16
65	Extracting equation of state parameters from black hole-neutron star mergers: Nonspinning black holes. <i>Physical Review D</i> , 2012, 85, .	1.6	131
66	Geometrical aspects of parameter estimation of a stochastic gravitational wave background: Beyond the Fisher analysis. <i>Physical Review D</i> , 2012, 86, .	1.6	1
67	Three-dimensional evolution of differentially rotating magnetized neutron stars. <i>Physical Review D</i> , 2012, 86, .	1.6	53
68	Erratum and Addendum: Gravitational waves from black hole-neutron star binaries: Classification of waveforms. <i>Physical Review D</i> , 2012, 85, .	1.6	10
69	Gravitational waves from spinning black hole-neutron star binaries: dependence on black hole spins and on neutron star equations of state. <i>Physical Review D</i> , 2011, 84, .	1.6	117
70	Effects of Hyperons in Binary Neutron Star Mergers. <i>Physical Review Letters</i> , 2011, 107, 211101.	2.9	82
71	Binary neutron star mergers: Dependence on the nuclear equation of state. <i>Physical Review D</i> , 2011, 83, .	1.6	230
72	Gravitational Waves and Neutrino Emission from the Merger of Binary Neutron Stars. <i>Physical Review Letters</i> , 2011, 107, 051102.	2.9	225

#	ARTICLE	IF	CITATIONS
73	Constraining Nuclear-Matter Equations of State by Gravitational Waves from Black Hole-Neutron Star Binaries. Progress of Theoretical Physics Supplement, 2010, 186, 17-25.	0.2	3
74	Gravitational waves from nonspinning black hole-neutron star binaries: Dependence on equations of state. Physical Review D, 2010, 82, .	1.6	101
75	Gravitational waves from black hole-neutron star binaries: Classification of waveforms. Physical Review D, 2009, 79, .	1.6	104
76	Quasiequilibrium states of black hole-neutron star binaries in the moving-puncture framework. Physical Review D, 2009, 79, .	1.6	33