

Koutarou Kyutoku

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Mass ejection from the merger of binary neutron stars. <i>Physical Review D</i> , 2013, 87, .	1.6	414
3	Modeling GW170817 based on numerical relativity and its implications. <i>Physical Review D</i> , 2017, 96, .	1.6	355
4	Remnant massive neutron stars of binary neutron star mergers: Evolution process and gravitational waveform. <i>Physical Review D</i> , 2013, 88, .	1.6	246
5	Dynamical mass ejection from binary neutron star mergers: Radiation-hydrodynamics study in general relativity. <i>Physical Review D</i> , 2015, 91, .	1.6	243
6	Matter effects on binary neutron star waveforms. <i>Physical Review D</i> , 2013, 88, .	1.6	238
7	Binary neutron star mergers: Dependence on the nuclear equation of state. <i>Physical Review D</i> , 2011, 83, .	1.6	230
8	Gravitational Waves and Neutrino Emission from the Merger of Binary Neutron Stars. <i>Physical Review Letters</i> , 2011, 107, 051102.	2.9	225
9	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
10	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
11	High resolution numerical relativity simulations for the merger of binary magnetized neutron stars. <i>Physical Review D</i> , 2014, 90, .	1.6	167
12	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
13	Dynamical mass ejection from black hole-neutron star binaries. <i>Physical Review D</i> , 2015, 92, .	1.6	140
14	MODELS OF KILONOVA/MACRONOVA EMISSION FROM BLACK HOLE-NEUTRON STAR MERGERS. <i>Astrophysical Journal</i> , 2016, 825, 52.	1.6	140
15	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
16	Extracting equation of state parameters from black hole-neutron star mergers: Nonspinning black holes. <i>Physical Review D</i> , 2012, 85, .	1.6	131
17	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
18	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

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19	RADIOACTIVELY POWERED EMISSION FROM BLACK HOLE-NEUTRON STAR MERGERS. <i>Astrophysical Journal</i> , 2014, 780, 31.	1.6	116
20	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
21	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
22	Revisiting the Lower Bound on Tidal Deformability Derived by AT 2017gfo. <i>Astrophysical Journal Letters</i> , 2019, 876, L31.	3.0	109
23	Anisotropic mass ejection from black hole-neutron star binaries: Diversity of electromagnetic counterparts. <i>Physical Review D</i> , 2013, 88, .	1.6	105
24	Gravitational waves from black hole-neutron star binaries: Classification of waveforms. <i>Physical Review D</i> , 2009, 79, .	1.6	104
25	Gravitational waves from nonspinning black hole-neutron star binaries: Dependence on equations of state. <i>Physical Review D</i> , 2010, 82, .	1.6	101
26	Effective no-hair relations for neutron stars and quark stars: Relativistic results. <i>Physical Review D</i> , 2014, 89, .	1.6	101
27	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
28	Measurability of the tidal deformability by gravitational waves from coalescing binary neutron stars. <i>Physical Review D</i> , 2016, 93, .	1.6	83
29	Effects of Hyperons in Binary Neutron Star Mergers. <i>Physical Review Letters</i> , 2011, 107, 211101.	2.9	82
30	Mass ejection from disks surrounding a low-mass black hole: Viscous neutrino-radiation hydrodynamics simulation in full general relativity. <i>Physical Review D</i> , 2020, 101, .	1.6	77
31	Exploring tidal effects of coalescing binary neutron stars in numerical relativity. <i>Physical Review D</i> , 2013, 87, .	1.6	75
32	Sub-radian-accuracy gravitational waveforms of coalescing binary neutron stars in numerical relativity. <i>Physical Review D</i> , 2017, 96, .	1.6	72
33	Postmerger Mass Ejection of Low-mass Binary Neutron Stars. <i>Astrophysical Journal</i> , 2020, 901, 122.	1.6	66
34	Neutrino transport in black hole-neutron star binaries: Neutrino emission and dynamical mass ejection. <i>Physical Review D</i> , 2018, 97, .	1.6	57
35	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
36	Three-dimensional evolution of differentially rotating magnetized neutron stars. <i>Physical Review D</i> , 2012, 86, .	1.6	53

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37	Reducing orbital eccentricity in initial data of binary neutron stars. <i>Physical Review D</i> , 2014, 90, .	1.6	53
38	On the Possibility of GW190425 Being a Black Hole–Neutron Star Binary Merger. <i>Astrophysical Journal Letters</i> , 2020, 890, L4.	3.0	53
39	Frequency-domain gravitational waveform models for inspiraling binary neutron stars. <i>Physical Review D</i> , 2018, 97, .	1.6	51
40	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
41	Gravitational-wave cosmography with LISA and the Hubble tension. <i>Physical Review D</i> , 2017, 95, .	1.6	41
42	Aligned spin neutron star-black hole mergers: A gravitational waveform amplitude model. <i>Physical Review D</i> , 2015, 92, .	1.6	40
43	General-relativistic neutrino-radiation magnetohydrodynamic simulation of seconds-long black hole-neutron star mergers. <i>Physical Review D</i> , 2022, 106, .	1.6	40
44	Gravitational-wave cutoff frequencies of tidally disruptive neutron star-black hole binary mergers. <i>Physical Review D</i> , 2015, 92, .	1.6	37
45	Viscous evolution of a massive disk surrounding stellar-mass black holes in full general relativity. <i>Physical Review D</i> , 2020, 102, .	1.6	35
46	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
47	Quasiequilibrium states of black hole-neutron star binaries in the moving-puncture framework. <i>Physical Review D</i> , 2009, 79, .	1.6	33
48	High-energy radiation from remnants of neutron star binary mergers. <i>Physical Review D</i> , 2014, 89, .	1.6	32
49	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. <i>Physical Review D</i> , 2020, 101, .	1.6	31
50	The origin of polarization in kilonovae and the case of the gravitational-wave counterpart AT 2017gfo. <i>Nature Astronomy</i> , 2019, 3, 99-106.	4.2	29
51	Coalescence of black hole–neutron star binaries. <i>Living Reviews in Relativity</i> , 2021, 24, 1.	8.2	29
52	Detectability of thermal neutrinos from binary neutron-star mergers and implications for neutrino physics. <i>Physical Review D</i> , 2018, 97, .	1.6	28
53	Nonspinning black hole-neutron star mergers: A model for the amplitude of gravitational waveforms. <i>Physical Review D</i> , 2013, 88, .	1.6	27
54	Reanalysis of the binary neutron star mergers GW170817 and GW190425 using numerical-relativity calibrated waveform models. <i>Physical Review Research</i> , 2020, 2, .	1.3	17

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55	Current status of numerical-relativity simulations in Kyoto. Progress of Theoretical and Experimental Physics, 2012, 2012, .	1.8	16
56	How to detect the shortest period binary pulsars in the era of <i>LISA</i> . Monthly Notices of the Royal Astronomical Society, 2019, 483, 2615-2620.	1.6	16
57	Prospects of the local Hubble parameter measurement using gravitational waves from double neutron stars. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4133-4139.	1.6	13
58	Discrepancy in tidal deformability of GW170817 between the Advanced LIGO twin detectors. Physical Review Research, 2019, 1, .	1.3	13
59	Pre-merger localization of eccentric compact binary coalescences with second-generation gravitational-wave detector networks. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1934-1942.	1.6	12
60	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
61	THE UNREASONABLE WEAKNESS OF R-PROCESS COSMIC RAYS IN THE NEUTRON-STAR-MERGER NUCLEOSYNTHESIS SCENARIO. Astrophysical Journal, 2016, 827, 83.	1.6	11
62	Erratum and Addendum: Gravitational waves from black hole-neutron star binaries: Classification of waveforms. Physical Review D, 2012, 85, .	1.6	10
63	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
64	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
65	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
66	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
67	Reducing orbital eccentricity in initial data of black hole-neutron star binaries in the puncture framework. Physical Review D, 2021, 103, .	1.6	2
68	Geometrical aspects of parameter estimation of a stochastic gravitational wave background: Beyond the Fisher analysis. Physical Review D, 2012, 86, .	1.6	1
69	Forecasting Tidal Disruption Events for Binary Black Holes with an Outer Tertiary. Physical Review Letters, 2017, 118, 151101.	2.9	1
70	Nucleosynthesis in the ejecta of neutron star mergers. , 2014, , .		0
71	Extracting the orbital axis from gravitational waves of precessing binary systems. Physical Review D, 2018, 97, .	1.6	0
72	Nucleosynthesis in Neutron Star Mergers. , 2018, , .		0

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73	Methods of Simulations. Springer Theses, 2013, , 67-81.	0.0	0
74	The Merger of Nonspinning Black Hole–Neutron Star Binaries. Springer Theses, 2013, , 93-114.	0.0	0
75	Diagnostics for Numerical Simulations. Springer Theses, 2013, , 83-92.	0.0	0
76	Computing Initial Conditions. Springer Theses, 2013, , 49-66.	0.0	0