

# Kent Yagi

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

6,941  
citations

66343

42  
h-index

58581

82  
g-index

96  
all docs

96  
docs citations

96  
times ranked

3293  
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing general relativity with present and future astrophysical observations. <i>Classical and Quantum Gravity</i> , 2015, 32, 243001.	4.0	943
2	Theoretical physics implications of the binary black-hole mergers GW150914 and GW151226. <i>Physical Review D</i> , 2016, 94, .	4.7	495
3	I-Love-Q relations in neutron stars and their applications to astrophysics, gravitational waves, and fundamental physics. <i>Physical Review D</i> , 2013, 88, .	4.7	333
4	I-Love-Q: Unexpected Universal Relations for Neutron Stars and Quark Stars. <i>Science</i> , 2013, 341, 365-368.	12.6	325
5	Detector configuration of DECIGO/BBO and identification of cosmological neutron-star binaries. <i>Physical Review D</i> , 2011, 83, .	4.7	284
6	Approximate universal relations for neutron stars and quark stars. <i>Physics Reports</i> , 2017, 681, 1-72.	25.6	242
7	Extreme gravity tests with gravitational waves from compact binary coalescences: (II) ringdown. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	216
8	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
9	Implications from GW170817 and I-Love-Q relations for relativistic hybrid stars. <i>Physical Review D</i> , 2018, 97, .	4.7	192
10	Extreme gravity tests with gravitational waves from compact binary coalescences: (I) inspiralâ€“merger. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	187
11	Slowly rotating black holes in dynamical Chern-Simons gravity: Deformation quadratic in the spin. <i>Physical Review D</i> , 2012, 86, .	4.7	166
12	Constraints on Einstein-Ã†tther theory and HoÃ™ava gravity from binary pulsar observations. <i>Physical Review D</i> , 2014, 89, .	4.7	161
13	Current status of space gravitational wave antenna DECIGO and B-DECIGO. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	6.6	150
14	Post-Newtonian, quasicircular binary inspirals in quadratic modified gravity. <i>Physical Review D</i> , 2012, 85, .	4.7	145
15	Strong Binary Pulsar Constraints on Lorentz Violation in Gravity. <i>Physical Review Letters</i> , 2014, 112, 161101.	7.8	128
16	Effective no-hair relations for neutron stars and quark stars: Relativistic results. <i>Physical Review D</i> , 2014, 89, .	4.7	101
17	Challenging the presence of scalar charge and dipolar radiation in binary pulsars. <i>Physical Review D</i> , 2016, 93, .	4.7	90
18	New constraint on scalar Gauss-Bonnet gravity and a possible explanation for the excess of the orbital decay rate in a low-mass x-ray binary. <i>Physical Review D</i> , 2012, 86, .	4.7	87

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19	Isolated and binary neutron stars in dynamical Chern-Simons gravity. <i>Physical Review D</i> , 2013, 87, .	4.7	87
20	Gravitational Waves from Quasicircular Black-Hole Binaries in Dynamical Chern-Simons Gravity. <i>Physical Review Letters</i> , 2012, 109, 251105.	7.8	82
21	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
22	Black Hole Spectroscopy with Coherent Mode Stacking. <i>Physical Review Letters</i> , 2017, 118, 161101.	7.8	81
23	Binary Love relations. <i>Classical and Quantum Gravity</i> , 2016, 33, 13LT01.	4.0	79
24	Constraining alternative theories of gravity by gravitational waves from precessing eccentric compact binaries with LISA. <i>Physical Review D</i> , 2010, 81, .	4.7	77
25	Multipole Love relations. <i>Physical Review D</i> , 2014, 89, .	4.7	76
26	Constraining nuclear matter parameters with GW170817. <i>Physical Review D</i> , 2019, 99, .	4.7	70
27	Cosmology with space-based gravitational-wave detectors: Dark energy and primordial gravitational waves. <i>Physical Review D</i> , 2012, 85, .	4.7	69
28	Parametrized post-Einsteinian gravitational waveforms in various modified theories of gravity. <i>Physical Review D</i> , 2018, 98, .	4.7	62
29	Why I-Love-Q: Explaining why universality emerges in compact objects. <i>Physical Review D</i> , 2014, 90, .	4.7	60
30	Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking. <i>Physical Review D</i> , 2018, 97, .	4.7	59
31	Probing the size of extra dimensions with gravitational wave astronomy. <i>Physical Review D</i> , 2011, 83, .	4.7	52
32	THREE-HAIR RELATIONS FOR ROTATING STARS: NONRELATIVISTIC LIMIT. <i>Astrophysical Journal</i> , 2014, 788, 15.	4.5	52
33	Probing the internal composition of neutron stars with gravitational waves. <i>Physical Review D</i> , 2015, 92, .	4.7	51
34	SCIENTIFIC POTENTIAL OF DECIGO PATHFINDER AND TESTING GR WITH SPACE-BORNE GRAVITATIONAL WAVE INTERFEROMETERS. <i>International Journal of Modern Physics D</i> , 2013, 22, 1341013.	2.1	50
35	Approximate universal relations among tidal parameters for neutron star binaries. <i>Classical and Quantum Gravity</i> , 2017, 34, 015006.	4.0	49
36	Equation-of-state insensitive relations after GW170817. <i>Physical Review D</i> , 2019, 99, .	4.7	47

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37	Gravitation-Wave Emission in Shift-Symmetric Horndeski Theories. <i>Physical Review Letters</i> , 2015, 115, 211105.	7.8	43
38	Publisher's Note: Constraints on Einstein-Æther theory and Hoava gravity from binary pulsar observations [ <i>Phys. Rev. D</i> 89, 084067 (2014)]. <i>Physical Review D</i> , 2014, 90, .	4.7	42
39	Parametrized and inspiral-merger-ringdown consistency tests of gravity with multiband gravitational wave observations. <i>Physical Review D</i> , 2020, 101, .	4.7	39
40	Multi-band gravitational wave tests of general relativity. <i>Classical and Quantum Gravity</i> , 2020, 37, 02LT01.	4.0	38
41	Projected constraints on Lorentz-violating gravity with gravitational waves. <i>Physical Review D</i> , 2015, 91, .	4.7	36
42	Probing gravitational parity violation with gravitational waves from stellar-mass black hole binaries. <i>Physical Review D</i> , 2018, 97, .	4.7	33
43	Asymptotically flat, parametrized black hole metric preserving Kerr symmetries. <i>Physical Review D</i> , 2020, 101, .	4.7	33
44	Constraints on Einstein-dilation-Gauss-Bonnet gravity from black hole-neutron star gravitational wave events. <i>Physical Review D</i> , 2022, 105, .	4.7	32
45	Testing gravity with gravitational waves from binary black hole mergers: Contributions from amplitude corrections. <i>Physical Review D</i> , 2019, 100, .	4.7	28
46	Gravitational waves from the quasicircular inspiral of compact binaries in Einstein-aether theory. <i>Physical Review D</i> , 2020, 101, .	4.7	27
47	Improved analytic modeling of neutron star interiors. <i>Physical Review D</i> , 2019, 99, .	4.7	24
48	Analytic I-Love-C relations for realistic neutron stars. <i>Physical Review D</i> , 2020, 101, .	4.7	24
49	Future prospects for probing scalar-tensor theories with gravitational waves from mixed binaries. <i>Classical and Quantum Gravity</i> , 2020, 37, 065008.	4.0	24
50	Brans-Dicke theory in Bondi-Sachs form: Asymptotically flat solutions, asymptotic symmetries, and gravitational-wave memory effects. <i>Physical Review D</i> , 2021, 103, .	4.7	24
51	The effect of mission duration on LISA science objectives. <i>General Relativity and Gravitation</i> , 2022, 54, 3.	2.0	24
52	Improved universality in the neutron star three-hair relations. <i>Physical Review D</i> , 2015, 92, .	4.7	23
53	Future prospects for constraining nuclear matter parameters with gravitational waves. <i>Physical Review D</i> , 2019, 100, .	4.7	23
54	Eikonal quasinormal modes of black holes beyond general relativity. III. Scalar Gauss-Bonnet gravity. <i>Physical Review D</i> , 2021, 104, .	4.7	22

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55	I-Love-Q relations for neutron stars in dynamical Chern Simons gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 025009.	4.0	21
56	Cosmology with Love: Measuring the Hubble constant using neutron star universal relations. <i>Physical Review D</i> , 2021, 104, .	4.7	20
57	Probing beyond-Kerr spacetimes with inspiral-ringdown corrections to gravitational waves. <i>Physical Review D</i> , 2020, 101, .	4.7	18
58	Probing compactified extra dimensions with gravitational waves. <i>Physical Review D</i> , 2021, 103, .	4.7	18
59	New binary pulsar constraints on Einstein-Äther theory after GW170817. <i>Classical and Quantum Gravity</i> , 2021, 38, 195003.	4.0	18
60	Gravitational-wave memory effects in Brans-Dicke theory: Waveforms and effects in the post-Newtonian approximation. <i>Physical Review D</i> , 2021, 104, .	4.7	18
61	Probing Einstein-dilaton Gauss-Bonnet gravity with the inspiral and ringdown of gravitational waves. <i>Physical Review D</i> , 2020, 101, .	4.7	17
62	Can the slow-rotation approximation be used in electromagnetic observations of black holes?. <i>Classical and Quantum Gravity</i> , 2016, 33, 105006.	4.0	16
63	Testing general relativity with black hole-pulsar binaries. <i>Physical Review D</i> , 2018, 98, .	4.7	16
64	Probing string-inspired gravity with the inspiral-merger-ringdown consistency tests of gravitational waves. <i>Classical and Quantum Gravity</i> , 2020, 37, 215007.	4.0	16
65	Probing hybrid stars with gravitational waves via interfacial modes. <i>Physical Review D</i> , 2021, 103, .	4.7	15
66	Tidal deformabilities of neutron stars in scalar-Gauss-Bonnet gravity and their applications to multimessenger tests of gravity. <i>Physical Review D</i> , 2021, 104, .	4.7	15
67	The gravitational wave stress-energy (pseudo)-tensor in modified gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 055011.	4.0	14
68	Probing massive scalar fields from a pulsar in a stellar triple system. <i>Classical and Quantum Gravity</i> , 2020, 37, 145008.	4.0	12
69	Surface of rapidly-rotating neutron stars: Implications to neutron star parameter estimation. <i>Physical Review D</i> , 2021, 103, .	4.7	11
70	Neutron stars in scalar-tensor theories: Analytic scalar charges and universal relations. <i>Physical Review D</i> , 2021, 104, .	4.7	11
71	Measuring individual masses of binary white dwarfs with space-based gravitational-wave interferometers. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 500, L52-L56.	3.3	11
72	Probing massive scalar and vector fields with binary pulsars. <i>Physical Review D</i> , 2020, 102, .	4.7	9

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73	Probing modified gravitational-wave propagation through tidal measurements of binary neutron star mergers. <i>Physical Review D</i> , 2021, 103, .	4.7	9
74	Parameter estimation for tests of general relativity with the astrophysical stochastic gravitational wave background. <i>Physical Review D</i> , 2020, 102, .	4.7	8
75	Probing noncommutative gravity with gravitational wave and binary pulsar observations. <i>Physical Review D</i> , 2020, 102, .	4.7	8
76	Gravitational-wave and X-ray probes of the neutron star equation of state. <i>Nature Reviews Physics</i> , 2022, 4, 237-246.	26.6	8
77	Parameterized and Consistency Tests of Gravity with GravitationalWaves: Current and Future. <i>Proceedings (mdpi)</i> , 2019, 17, 5.	0.2	7
78	lâ€“Loveâ€“Q relations for realistic white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 978-992.	4.4	7
79	Testing the Formation Scenarios of Binary Neutron Star Systems with Measurements of the Neutron Star Moment of Inertia. <i>Astrophysical Journal</i> , 2018, 856, 19.	4.5	6
80	Testing General Relativity with Gravitational Waves. , 2021, , 1-33.		5
81	Rotating black holes in valid vector-tensor theories after GW170817. <i>Physical Review D</i> , 2020, 102, .	4.7	2
82	Relativistic astrophysics at GR20. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	1
83	Post-Newtonian, quasicircular binary inspirals in quadratic modified gravity. , 0, .		1
84	BINARY INSPIRAL IN QUADRATIC GRAVITY. , 2015, , .		0
85	Testing General Relativity with Gravitational Waves. , 2022, , 1591-1623.		0