Kent Yagi

List of Publications by Year
in descending order

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	Gravitational-wave and X-ray probes of the neutron star equation of state. Nature Reviews Physics, 2022, 4, 237-246.	26.6	8
2	The effect of mission duration on LISA science objectives. General Relativity and Gravitation, 2022, 54, 3.	2.0	24
3	Constraints on Einstein-dilation-Gauss-Bonnet gravity from black hole-neutron star gravitational wave events. Physical Review D, 2022, 105, .	4.7	32
4	Testing General Relativity with Gravitational Waves. , 2022, , 1591-1623.		0
5	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
6	Testing General Relativity with Gravitational Waves. , 2021, , 1-33.		5
7	Probing compactified extra dimensions with gravitational waves. Physical Review D, 2021, 103, .	4.7	18
8	Current status of space gravitational wave antenna DECIGO and B-DECIGO. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	150
9	Probing hybrid stars with gravitational waves via interfacial modes. Physical Review D, 2021, 103, .	4.7	15
10	Surface of rapidly-rotating neutron stars: Implications to neutron star parameter estimation. Physical Review D, 2021, 103, .	4.7	11
11	Brans-Dicke theory in Bondi-Sachs form: Asymptotically flat solutions, asymptotic symmetries, and gravitational-wave memory effects. Physical Review D, 2021, 103, .	4.7	24
12	Probing modified gravitational-wave propagation through tidal measurements of binary neutron star mergers. Physical Review D, 2021, 103, .	4.7	9
13	Neutron stars in scalar-tensor theories: Analytic scalar charges and universal relations. Physical Review D, 2021, 104, .	4.7	11
14	New binary pulsar constraints on Einstein-Æther theory after GW170817. Classical and Quantum Gravity, 2021, 38, 195003.	4.0	18
15	Eikonal quasinormal modes of black holes beyond general relativity. III. Scalar Gauss-Bonnet gravity. Physical Review D, 2021, 104, .	4.7	22
16	Cosmology with Love: Measuring the Hubble constant using neutron star universal relations. Physical Review D, 2021, 104, .	4.7	20
17	Gravitational-wave memory effects in Brans-Dicke theory: Waveforms and effects in the post-Newtonian approximation. Physical Review D, 2021, 104, .	4.7	18
18	Tidal deformabilities of neutron stars in scalar-Gauss-Bonnet gravity and their applications to multimessenger tests of gravity. Physical Review D, 2021, 104, .	4.7	15

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19	I–Love–Q relations for realistic white dwarfs. Monthly Notices of the Royal Astronomical Society, 2020, 492, 978-992.	4.4	7
20	Parameter estimation for tests of general relativity with the astrophysical stochastic gravitational wave background. Physical Review D, 2020, 102, .	4.7	8
21	Rotating black holes in valid vector-tensor theories after GW170817. Physical Review D, 2020, 102, .	4.7	2
22	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
23	Probing massive scalar and vector fields with binary pulsars. Physical Review D, 2020, 102, .	4.7	9
24	Probing noncommutative gravity with gravitational wave and binary pulsar observations. Physical Review D, 2020, 102, .	4.7	8
25	Probing Einstein-dilaton Gauss-Bonnet gravity with the inspiral and ringdown of gravitational waves. Physical Review D, 2020, 101, .	4.7	17
26	Analytic I-Love-C relations for realistic neutron stars. Physical Review D, 2020, 101, .	4.7	24
27	Gravitational waves from the quasicircular inspiral of compact binaries in Einstein-aether theory. Physical Review D, 2020, 101, .	4.7	27
28	Parametrized and inspiral-merger-ringdown consistency tests of gravity with multiband gravitational wave observations. Physical Review D, 2020, 101, .	4.7	39
29	Multi-band gravitational wave tests of general relativity. Classical and Quantum Gravity, 2020, 37, 02LT01.	4.0	38
30	Future prospects for probing scalar–tensor theories with gravitational waves from mixed binaries. Classical and Quantum Gravity, 2020, 37, 065008.	4.0	24
31	Asymptotically flat, parametrized black hole metric preserving Kerr symmetries. Physical Review D, 2020, 101, .	4.7	33
32	Probing beyond-Kerr spacetimes with inspiral-ringdown corrections to gravitational waves. Physical Review D, 2020, 101, .	4.7	18
33	Probing massive scalar fields from a pulsar in a stellar triple system. Classical and Quantum Gravity, 2020, 37, 145008.	4.0	12
34	Probing string-inspired gravity with the inspiral–merger–ringdown consistency tests of gravitational waves. Classical and Quantum Gravity, 2020, 37, 215007.	4.0	16
35	Measuring individual masses of binary white dwarfs with space-based gravitational-wave interferometers. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L52-L56.	3.3	11
36	Future prospects for constraining nuclear matter parameters with gravitational waves. Physical Review D, 2019, 100, .	4.7	23

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37	Parameterized and Consistency Tests of Gravity with GravitationalWaves: Current and Future. Proceedings (mdpi), 2019, 17, 5.	0.2	7
38	Testing gravity with gravitational waves from binary black hole mergers: Contributions from amplitude corrections. Physical Review D, 2019, 100, .	4.7	28
39	Improved analytic modeling of neutron star interiors. Physical Review D, 2019, 99, .	4.7	24
40	Equation-of-state insensitive relations after GW170817. Physical Review D, 2019, 99, .	4.7	47
41	Constraining nuclear matter parameters with GW170817. Physical Review D, 2019, 99, .	4.7	70
42	The gravitational wave stress–energy (pseudo)-tensor in modified gravity. Classical and Quantum Gravity, 2018, 35, 055011.	4.0	14
43	Implications from GW170817 and I-Love-Q relations for relativistic hybrid stars. Physical Review D, 2018, 97, .	4.7	192
44	Extreme gravity tests with gravitational waves from compact binary coalescences: (I) inspiral–merger. General Relativity and Gravitation, 2018, 50, 1.	2.0	187
45	Extreme gravity tests with gravitational waves from compact binary coalescences: (II) ringdown. General Relativity and Gravitation, 2018, 50, 1.	2.0	216
46	Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking. Physical Review D, 2018, 97, .	4.7	59
47	I-Love-Q relations for neutron stars in dynamical Chern Simons gravity. Classical and Quantum Gravity, 2018, 35, 025009.	4.0	21
48	Testing the Formation Scenarios of Binary Neutron Star Systems with Measurements of the Neutron Star Moment of Inertia. Astrophysical Journal, 2018, 856, 19.	4.5	6
49	Testing general relativity with black hole-pulsar binaries. Physical Review D, 2018, 98, .	4.7	16
50	Parametrized post-Einsteinian gravitational waveforms in various modified theories of gravity. Physical Review D, 2018, 98, .	4.7	62
51	Probing gravitational parity violation with gravitational waves from stellar-mass black hole binaries. Physical Review D, 2018, 97, .	4.7	33
52	Approximate universal relations for neutron stars and quark stars. Physics Reports, 2017, 681, 1-72.	25.6	242
53	Approximate universal relations among tidal parameters for neutron star binaries. Classical and Quantum Gravity, 2017, 34, 015006.	4.0	49
54	Black Hole Spectroscopy with Coherent Mode Stacking. Physical Review Letters, 2017, 118, 161101.	7.8	81

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55	Theoretical physics implications of the binary black-hole mergers GW150914 and GW151226. Physical Review D, 2016, 94, .	4.7	495
56	Challenging the presence of scalar charge and dipolar radiation in binary pulsars. Physical Review D, 2016, 93, .	4.7	90
57	Can the slow-rotation approximation be used in electromagnetic observations of black holes?. Classical and Quantum Gravity, 2016, 33, 105006.	4.0	16
58	Binary Love relations. Classical and Quantum Gravity, 2016, 33, 13LT01.	4.0	79
59	Projected constraints on Lorentz-violating gravity with gravitational waves. Physical Review D, 2015, 91, .	4.7	36
60	Probing the internal composition of neutron stars with gravitational waves. Physical Review D, 2015, 92, .	4.7	51
61	Improved universality in the neutron star three-hair relations. Physical Review D, 2015, 92, .	4.7	23
62	Gravitation-Wave Emission in Shift-Symmetric Horndeski Theories. Physical Review Letters, 2015, 115, 211105.	7.8	43
63	BINARY INSPIRAL IN QUADRATIC GRAVITY. , 2015, , .		0
64	Testing general relativity with present and future astrophysical observations. Classical and Quantum Gravity, 2015, 32, 243001.	4.0	943
65	Strong Binary Pulsar Constraints on Lorentz Violation in Gravity. Physical Review Letters, 2014, 112, 161101.	7.8	128
66	Why I-Love-Q: Explaining why universality emerges in compact objects. Physical Review D, 2014, 90, .	4.7	60
67	Multipole Love relations. Physical Review D, 2014, 89, .	4.7	76
68	Constraints on Einstein-Ã†ther theory and HoÅ™ava gravity from binary pulsar observations. Physical Review D, 2014, 89, .	4.7	161
69	Effective no-hair relations for neutron stars and quark stars: Relativistic results. Physical Review D, 2014, 89, .	4.7	101
70	Publisherâ€™s Note: Constraints on Einstein-Ã†ther theory and HoÅ™ava gravity from binary pulsar observations [Phys. Rev. D89, 084067 (2014)]. Physical Review D, 2014, 90, .	4.7	42
71	THREE-HAIR RELATIONS FOR ROTATING STARS: NONRELATIVISTIC LIMIT. Astrophysical Journal, 2014, 788, 15.	4.5	52
72	Relativistic astrophysics at GR20. General Relativity and Gravitation, 2014, 46, 1.	2.0	1

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73	I-Love-Q: Unexpected Universal Relations for Neutron Stars and Quark Stars. Science, 2013, 341, 365-368.	12.6	325
74	I-Love-Q relations in neutron stars and their applications to astrophysics, gravitational waves, and fundamental physics. Physical Review D, 2013, 88, .	4.7	333
75	Isolated and binary neutron stars in dynamical Chern-Simons gravity. Physical Review D, 2013, 87, .	4.7	87
76	SCIENTIFIC POTENTIAL OF DECIGO PATHFINDER AND TESTING GR WITH SPACE-BORNE GRAVITATIONAL WAVE INTERFEROMETERS. International Journal of Modern Physics D, 2013, 22, 1341013.	2.1	50
77	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. Physical Review D, 2012, 86, .	4.7	87
78	Post-Newtonian, quasicircular binary inspirals in quadratic modified gravity. Physical Review D, 2012, 85, .	4.7	145
79	Cosmology with space-based gravitational-wave detectors: Dark energy and primordial gravitational waves. Physical Review D, 2012, 85, .	4.7	69
80	Gravitational Waves from Quasicircular Black-Hole Binaries in Dynamical Chern-Simons Gravity. Physical Review Letters, 2012, 109, 251105.	7.8	82
81	Slowly rotating black holes in dynamical Chern-Simons gravity: Deformation quadratic in the spin. Physical Review D, 2012, 86, .	4.7	166
82	Detector configuration of DECIGO/BBO and identification of cosmological neutron-star binaries. Physical Review D, 2011, 83, .	4.7	284
83	Probing the size of extra dimensions with gravitational wave astronomy. Physical Review D, 2011, 83, .	4.7	52
84	Constraining alternative theories of gravity by gravitational waves from precessing eccentric compact binaries with LISA. Physical Review D, 2010, 81, .	4.7	77
85	Post-Newtonian, quasicircular binary inspirals in quadratic modified gravity. , 0, .		1