Huan Yang

List of Publications by Year
in descending order

52	1,936	218677	243625
papers	citations	26 h-index	44 g-index

53	53	53	2003
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extreme gravity tests with gravitational waves from compact binary coalescences: (II) ringdown. General Relativity and Gravitation, 2018, 50, 1.	2.0	216
2	Quasinormal-mode spectrum of Kerr black holes and its geometric interpretation. Physical Review D, 2012, 86, .	4.7	137
3	Macroscopic Quantum Mechanics in a Classical Spacetime. Physical Review Letters, 2013, 110, 170401.	7.8	100
4	Quasinormal modes of nearly extremal Kerr spacetimes: Spectrum bifurcation and power-law ringdown. Physical Review D, 2013, 88, .	4.7	92
5	Black Hole Spectroscopy with Coherent Mode Stacking. Physical Review Letters, 2017, 118, 161101.	7.8	81
6	Exploring the sensitivity of gravitational wave detectors to neutron star physics. Physical Review D, 2019, 99, .	4.7	78
7	Branching of quasinormal modes for nearly extremal Kerr black holes. Physical Review D, 2013, 87, .	4.7	66
8	Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking. Physical Review D, 2018, 97, .	4.7	59
9	Quantum back-action in measurements of zero-point mechanical oscillations. Physical Review A, 2012, 86, .	2.5	56
10	Brownian thermal noise in multilayer coated mirrors. Physical Review D, 2013, 87, .	4.7	56
11	Turbulent Black Holes. Physical Review Letters, 2015, 114, 081101.	7.8	56
12	Tidal Resonance in Extreme Mass-Ratio Inspirals. Physical Review Letters, 2019, 123, 101103.	7.8	56
13	Orbit-induced Spin Precession as a Possible Origin for Periodicity in Periodically Repeating Fast Radio Bursts. Astrophysical Journal Letters, 2020, 893, L31.	8.3	51
14	Can We Distinguish Low-mass Black Holes in Neutron Star Binaries?. Astrophysical Journal, 2018, 856, 110.	4.5	50
15	Quasinormal modes of weakly charged Kerr-Newman spacetimes. Physical Review D, 2015, 91, .	4.7	43
16	Global Crustal Dynamics of Magnetars in Relation to Their Bright X-Ray Outbursts. Astrophysical Journal, 2017, 841, 54.	4.5	43
17	Dynamic signatures of black hole binaries with superradiant clouds. Physical Review D, 2020, 101, .	4.7	43
18	Formation rate of extreme mass ratio inspirals in active galactic nuclei. Physical Review D, 2021, 103, .	4.7	43

#	Article	IF	Citations
19	Towards the design of gravitational-wave detectors for probing neutron-star physics. Physical Review D, 2018, 98, .	4.7	42
20	Gravitational floating orbits around hairy black holes. Physical Review D, 2019, 99, .	4.7	41
21	Evolution of highly eccentric binary neutron stars including tidal effects. Physical Review D, 2018, 98, .	4.7	35
22	Quantum correlations of light mediated by gravity. Physical Review A, 2020, 101, .	2.5	34
23	Probing gravitational parity violation with gravitational waves from stellar-mass black hole binaries. Physical Review D, 2018, 97, .	4.7	33
24	Quantum limits of interferometer topologies for gravitational radiation detection. Classical and Quantum Gravity, 2014, 31, 165010.	4.0	31
25	Physics of Pair Producing Gaps in Black Hole Magnetospheres. Astrophysical Journal Letters, 2018, 863, L31.	8.3	31
26	Wet extreme mass ratio inspirals may be more common for spaceborne gravitational wave detection. Physical Review D, 2021, 104, .	4.7	27
27	General relativistic dynamics of an extreme mass-ratio binary interacting with an external body. Physical Review D, 2017, 96, .	4.7	24
28	Testing Gravitational Memory Generation with Compact Binary Mergers. Physical Review Letters, 2018, 121, 071102.	7.8	24
29	Relating black hole shadow to quasinormal modes for rotating black holes. Physical Review D, 2021, 103, .	4.7	24
30	Towards an understanding of the force-free magnetosphere of rapidly spinning black holes. Physical Review D, 2014, 90, .	4.7	21
31	First Constraints on Nuclear Coupling of Axionlike Particles from the Binary Neutron Star Gravitational Wave Event GW170817. Physical Review Letters, 2021, 127, 161101.	7.8	21
32	Inspiralling eccentric binary neutron stars: Orbital motion and tidal resonance. Physical Review D, 2019, 100, .	4.7	19
33	Supercritical Accretion of Stellar-mass Compact Objects in Active Galactic Nuclei. Astrophysical Journal, 2021, 923, 173.	4.5	19
34	Stability of force-free magnetospheres. Physical Review D, 2014, 90, .	4.7	18
35	Magnetosphere of a Kerr black hole immersed in magnetized plasma and its perturbative mode structure. Physical Review D, 2015, 91, .	4.7	18
36	Scalar Green function of the Kerr spacetime. Physical Review D, 2014, 89, .	4.7	17

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37	Probing Crust Meltdown in Inspiraling Binary Neutron Stars. Physical Review Letters, 2020, 125, 201102.	7.8	16
38	Relativistic mean motion resonance. Physical Review D, 2019, 100, .	4.7	14
39	Coupled oscillator model for nonlinear gravitational perturbations. Physical Review D, 2015, 91, .	4.7	13
40	Black hole discharge: Very-high-energy gamma rays from black hole-neutron star mergers. Physical Review D, 2019, 100, .	4.7	13
41	Magnetosphere of a spinning black hole and the role of the current sheet. Physical Review D, 2018, 98, .	4.7	11
42	Toward observing neutron star collapse with gravitational wave detectors. Physical Review D, 2021, 103, .	4.7	9
43	Wavefront twisting by rotating black holes: Orbital angular momentum generation and phase coherent detection. Physical Review D, 2014, 90, .	4.7	8
44	PLASMA-WAVE GENERATION IN A DYNAMIC SPACETIME. Astrophysical Journal, 2016, 817, 183.	4.5	8
45	Mass-gap extreme mass ratio inspirals. Physical Review D, 2022, 105, .	4.7	6
46	Testing gravity with pulsar scintillation measurements. Physical Review D, 2017, 95, .	4.7	4
47	Mimicking Kerrâ€™s multipole moments. Physical Review D, 2021, 104, .	4.7	4
48	Using machine learning to parametrize postmerger signals from binary neutron stars. Physical Review D, 2022, 105, .	4.7	4
49	Probing the Growth of Massive Black Holes with Black Holeâ€“Host Galaxy Spin Correlations. Astrophysical Journal, 2020, 901, 163.	4.5	3
50	Orbit Tomography of Binary Supermassive Black Holes with Very Long Baseline Interferometry. Astrophysical Journal, 2022, 927, 93.	4.5	3
51	Black-hole perturbation theory with post-Newtonian theory: Towards hybrid waveforms for neutron-star binaries. Physical Review D, 2022, 105, .	4.7	1
52	Science potential for stellar-mass black holes as neighbors of Sgr <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="normal">A</mml:mi></mml:mrow><mml:mrow><mml:mo>*</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:m Physical Review D, 2022, 105, .	4.7	1