

Badri Krishnan

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

4,621
citations

186265
28
h-index

155660
55
g-index

56
all docs

56
docs citations

56
times ranked

2783
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolated and Dynamical Horizons and Their Applications. Living Reviews in Relativity, 2004, 7, 10.	26.7	554
2	The PyCBC search for gravitational waves from compact binary coalescence. Classical and Quantum Gravity, 2016, 33, 215004.	4.0	393
3	Dynamical horizons and their properties. Physical Review D, 2003, 68, .	4.7	279
4	Stringent constraints on neutron-star radii from multimessenger observations and nuclear theory. Nature Astronomy, 2020, 4, 625-632.	10.1	269
5	Isolated horizons: Hamiltonian evolution and the first law. Physical Review D, 2000, 62, .	4.7	257
6	Black-hole spectroscopy: testing general relativity through gravitational-wave observations. Classical and Quantum Gravity, 2004, 21, 787-803.	4.0	237
7	Dynamical Horizons: Energy, Angular Momentum, Fluxes, and Balance Laws. Physical Review Letters, 2002, 89, 261101.	7.8	229
8	Introduction to isolated horizons in numerical relativity. Physical Review D, 2003, 67, .	4.7	227
9	Generic Isolated Horizons and Their Applications. Physical Review Letters, 2000, 85, 3564-3567.	7.8	215
10	Spin flips and precession in black-hole-binary mergers. Physical Review D, 2007, 75, .	4.7	159
11	Detecting gravitational wave emission from the known accreting neutron stars. Monthly Notices of the Royal Astronomical Society, 2008, 389, 839-868.	4.4	154
12	1-OGC: The First Open Gravitational-wave Catalog of Binary Mergers from Analysis of Public Advanced LIGO Data. Astrophysical Journal, 2019, 872, 195.	4.5	144
13	Implementing a search for aligned-spin neutron star-black hole systems with advanced ground based gravitational wave detectors. Physical Review D, 2014, 90, .	4.7	143
14	Hough transform search for continuous gravitational waves. Physical Review D, 2004, 70, .	4.7	135
15	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. Classical and Quantum Gravity, 2009, 26, 165008.	4.0	110
16	Introduction to dynamical horizons in numerical relativity. Physical Review D, 2006, 74, .	4.7	97
17	Low significance of evidence for black hole echoes in gravitational wave data. Physical Review D, 2018, 97, .	4.7	97
18	Targeted search for continuous gravitational waves: Bayesian versus maximum-likelihood statistics. Classical and Quantum Gravity, 2009, 26, 204013.	4.0	75

#	ARTICLE	IF	CITATIONS
19	Improved stack-slide searches for gravitational-wave pulsars. <i>Physical Review D</i> , 2005, 72, .	4.7	66
20	Nonsymmetric trapped surfaces in the Schwarzschild and Vaidya spacetimes. <i>Physical Review D</i> , 2006, 73, .	4.7	64
21	Cross-correlation search for periodic gravitational waves. <i>Physical Review D</i> , 2008, 77, .	4.7	52
22	DISTORTED BLACK HOLES WITH CHARGE. <i>International Journal of Modern Physics D</i> , 2001, 10, 691-709.	2.1	44
23	Observational tests of the black hole area increase law. <i>Physical Review D</i> , 2018, 97, .	4.7	42
24	Black hole spectroscopy in the next decade. <i>Physical Review D</i> , 2020, 101, .	4.7	42
25	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009, 26, 114008.	4.0	39
26	Quasilocal linear momentum in black-hole binaries. <i>Physical Review D</i> , 2007, 76, .	4.7	34
27	Search for Continuous Gravitational Waves from Scorpius X-1 in LIGO O2 Data. <i>Astrophysical Journal Letters</i> , 2021, 906, L14.	8.3	34
28	Dynamics of marginally trapped surfaces in a binary black hole merger: Growth and approach to equilibrium. <i>Physical Review D</i> , 2018, 97, .	4.7	31
29	Einstein@Home search for continuous gravitational waves from Cassiopeia A. <i>Physical Review D</i> , 2016, 94, .	4.7	28
30	Detectability of the subdominant mode in a binary black hole ringdown. <i>Physical Review D</i> , 2020, 102, .	4.7	26
31	Existence of initial data containing isolated black holes. <i>Physical Review D</i> , 2005, 71, .	4.7	25
32	Quasinormal modes and their overtones at the common horizon in a binary black hole merger. <i>Physical Review D</i> , 2021, 103, .	4.7	25
33	Slicing dependence of nonspherically symmetric quasilocal horizons in Vaidya spacetimes. <i>Physical Review D</i> , 2011, 83, .	4.7	24
34	Optimal directed searches for continuous gravitational waves. <i>Physical Review D</i> , 2016, 93, .	4.7	24
35	Fundamental properties and applications of quasi-local black hole horizons. <i>Classical and Quantum Gravity</i> , 2008, 25, 114005.	4.0	21
36	The spacetime in the neighborhood of a general isolated black hole. <i>Classical and Quantum Gravity</i> , 2012, 29, 205006.	4.0	21

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37	Improved Hough search for gravitational wave pulsars. Journal of Physics: Conference Series, 2006, 32, 206-211.	0.4	18
38	Interior of a Binary Black Hole Merger. Physical Review Letters, 2019, 123, 171102.	7.8	18
39	Self-intersecting marginally outer trapped surfaces. Physical Review D, 2019, 100, .	4.7	18
40	Inferring the gravitational wave memory for binary coalescence events. Physical Review D, 2021, 103, .	4.7	18
41	Existence and stability of marginally trapped surfaces in black-hole spacetimes. Physical Review D, 2019, 99, .	4.7	17
42	News from Horizons in Binary Black Hole Mergers. Physical Review Letters, 2020, 125, 121101.	7.8	15
43	Detecting gravitational waves from accreting neutron stars. Advances in Space Research, 2009, 43, 1049-1054.	2.6	14
44	Optimally setting up directed searches for continuous gravitational waves in Advanced LIGO O1 data. Physical Review D, 2018, 97, .	4.7	14
45	Resampling to accelerate cross-correlation searches for continuous gravitational waves from binary systems. Physical Review D, 2018, 97, .	4.7	12
46	Wide parameter search for isolated pulsars using the Hough transform. Classical and Quantum Gravity, 2005, 22, S1265-S1275.	4.0	9
47	Searching for numerically simulated signals from black-hole binaries with a phenomenological template family. Classical and Quantum Gravity, 2009, 26, 114010.	4.0	9
48	Stochastic template bank for gravitational wave searches for precessing neutron-starâ€“black-hole coalescence events. Physical Review D, 2017, 95, .	4.7	9
49	Quasi-local Black Hole Horizons. , 2014, , 527-555.		9
50	SwiftPointing and the Association between Gammaâ€“Ray Bursts and Gravitational Wave Bursts. Astrophysical Journal, 2004, 607, 384-390.	4.5	5
51	Tidal deformations of spinning black holes in Bowenâ€“York initial data. Classical and Quantum Gravity, 2015, 32, 045009.	4.0	5
52	Model systematics in time domain tests of binary black hole evolution. Physical Review D, 2022, 105, .	4.7	5
53	Reducing the number of templates for aligned-spin compact binary coalescence gravitational wave searches using metric-agnostic template nudging. Physical Review D, 2018, 97, .	4.7	4
54	Testing gravitational waveform models using angular momentum. Physical Review D, 2021, 104, .	4.7	3

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55	Tidal deformation of dynamical horizons in binary black hole mergers. <i>Physical Review D</i> , 2022, 105, .	4.7	2
56	Swift pointing and gravitational-wave bursts from gamma-ray burst events. <i>Classical and Quantum Gravity</i> , 2003, 20, S815-S820.	4.0	1