

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	Tidal deformation of dynamical horizons in binary black hole mergers. <i>Physical Review D</i> , 2022, 105, .	4.7	2
2	Model systematics in time domain tests of binary black hole evolution. <i>Physical Review D</i> , 2022, 105, .	4.7	5
3	Search for Continuous Gravitational Waves from Scorpius X-1 in LIGO O2 Data. <i>Astrophysical Journal Letters</i> , 2021, 906, L14.	8.3	34
4	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
5	Inferring the gravitational wave memory for binary coalescence events. <i>Physical Review D</i> , 2021, 103, .	4.7	18
6	Testing gravitational waveform models using angular momentum. <i>Physical Review D</i> , 2021, 104, .	4.7	3
7	News from Horizons in Binary Black Hole Mergers. <i>Physical Review Letters</i> , 2020, 125, 121101.	7.8	15
8	Stringent constraints on neutron-star radii from multimessenger observations and nuclear theory. <i>Nature Astronomy</i> , 2020, 4, 625-632.	10.1	269
9	Black hole spectroscopy in the next decade. <i>Physical Review D</i> , 2020, 101, .	4.7	42
10	Detectability of the subdominant mode in a binary black hole ringdown. <i>Physical Review D</i> , 2020, 102, .	4.7	26
11	Interior of a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2019, 123, 171102.	7.8	18
12	Self-intersecting marginally outer trapped surfaces. <i>Physical Review D</i> , 2019, 100, .	4.7	18
13	1-OGC: The First Open Gravitational-wave Catalog of Binary Mergers from Analysis of Public Advanced LIGO Data. <i>Astrophysical Journal</i> , 2019, 872, 195.	4.5	144
14	Existence and stability of marginally trapped surfaces in black-hole spacetimes. <i>Physical Review D</i> , 2019, 99, .	4.7	17
15	Optimally setting up directed searches for continuous gravitational waves in Advanced LIGO O1 data. <i>Physical Review D</i> , 2018, 97, .	4.7	14
16	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
17	Resampling to accelerate cross-correlation searches for continuous gravitational waves from binary systems. <i>Physical Review D</i> , 2018, 97, .	4.7	12
18	Observational tests of the black hole area increase law. <i>Physical Review D</i> , 2018, 97, .	4.7	42

#	ARTICLE	IF	CITATIONS
19	Reducing the number of templates for aligned-spin compact binary coalescence gravitational wave searches using metric-agnostic template nudging. <i>Physical Review D</i> , 2018, 97, .	4.7	4
20	Low significance of evidence for black hole echoes in gravitational wave data. <i>Physical Review D</i> , 2018, 97, .	4.7	97
21	Stochastic template bank for gravitational wave searches for precessing neutron-starâ€“black-hole coalescence events. <i>Physical Review D</i> , 2017, 95, .	4.7	9
22	Einstein@Home search for continuous gravitational waves from Cassiopeia A. <i>Physical Review D</i> , 2016, 94, .	4.7	28
23	The PyCBC search for gravitational waves from compact binary coalescence. <i>Classical and Quantum Gravity</i> , 2016, 33, 215004.	4.0	393
24	Optimal directed searches for continuous gravitational waves. <i>Physical Review D</i> , 2016, 93, .	4.7	24
25	Tidal deformations of spinning black holes in Bowenâ€“York initial data. <i>Classical and Quantum Gravity</i> , 2015, 32, 045009.	4.0	5
26	Implementing a search for aligned-spin neutron star-black hole systems with advanced ground based gravitational wave detectors. <i>Physical Review D</i> , 2014, 90, .	4.7	143
27	Quasi-local Black Hole Horizons. , 2014, , 527-555.		9
28	The spacetime in the neighborhood of a general isolated black hole. <i>Classical and Quantum Gravity</i> , 2012, 29, 205006.	4.0	21
29	Slicing dependence of nonspherically symmetric quasilocal horizons in Vaidya spacetimes. <i>Physical Review D</i> , 2011, 83, .	4.7	24
30	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. <i>Classical and Quantum Gravity</i> , 2009, 26, 165008.	4.0	110
31	Targeted search for continuous gravitational waves: Bayesian versus maximum-likelihood statistics. <i>Classical and Quantum Gravity</i> , 2009, 26, 204013.	4.0	75
32	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009, 26, 114008.	4.0	39
33	Searching for numerically simulated signals from black-hole binaries with a phenomenological template family. <i>Classical and Quantum Gravity</i> , 2009, 26, 114010.	4.0	9
34	Detecting gravitational waves from accreting neutron stars. <i>Advances in Space Research</i> , 2009, 43, 1049-1054.	2.6	14
35	Detecting gravitational wave emission from the known accreting neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 839-868.	4.4	154
36	Fundamental properties and applications of quasi-local black hole horizons. <i>Classical and Quantum Gravity</i> , 2008, 25, 114005.	4.0	21

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37	Cross-correlation search for periodic gravitational waves. <i>Physical Review D</i> , 2008, 77, .	4.7	52
38	Quasilocal linear momentum in black-hole binaries. <i>Physical Review D</i> , 2007, 76, .	4.7	34
39	Spin flips and precession in black-hole-binary mergers. <i>Physical Review D</i> , 2007, 75, .	4.7	159
40	Introduction to dynamical horizons in numerical relativity. <i>Physical Review D</i> , 2006, 74, .	4.7	97
41	Nonsymmetric trapped surfaces in the Schwarzschild and Vaidya spacetimes. <i>Physical Review D</i> , 2006, 73, .	4.7	64
42	Improved Hough search for gravitational wave pulsars. <i>Journal of Physics: Conference Series</i> , 2006, 32, 206-211.	0.4	18
43	Wide parameter search for isolated pulsars using the Hough transform. <i>Classical and Quantum Gravity</i> , 2005, 22, S1265-S1275.	4.0	9
44	Improved stack-slide searches for gravitational-wave pulsars. <i>Physical Review D</i> , 2005, 72, .	4.7	66
45	Existence of initial data containing isolated black holes. <i>Physical Review D</i> , 2005, 71, .	4.7	25
46	Hough transform search for continuous gravitational waves. <i>Physical Review D</i> , 2004, 70, .	4.7	135
47	Black-hole spectroscopy: testing general relativity through gravitational-wave observations. <i>Classical and Quantum Gravity</i> , 2004, 21, 787-803.	4.0	237
48	SwiftPointing and the Association between Gamma-Ray Bursts and Gravitational Wave Bursts. <i>Astrophysical Journal</i> , 2004, 607, 384-390.	4.5	5
49	Isolated and Dynamical Horizons and Their Applications. <i>Living Reviews in Relativity</i> , 2004, 7, 10.	26.7	554
50	Introduction to isolated horizons in numerical relativity. <i>Physical Review D</i> , 2003, 67, .	4.7	227
51	Dynamical horizons and their properties. <i>Physical Review D</i> , 2003, 68, .	4.7	279
52	Swift pointing and gravitational-wave bursts from gamma-ray burst events. <i>Classical and Quantum Gravity</i> , 2003, 20, S815-S820.	4.0	1
53	Dynamical Horizons: Energy, Angular Momentum, Fluxes, and Balance Laws. <i>Physical Review Letters</i> , 2002, 89, 261101.	7.8	229
54	DISTORTED BLACK HOLES WITH CHARGE. <i>International Journal of Modern Physics D</i> , 2001, 10, 691-709.	2.1	44

#	ARTICLE	IF	CITATIONS
55	Isolated horizons: Hamiltonian evolution and the first law. Physical Review D, 2000, 62, .	4.7	257
56	Generic Isolated Horizons and Their Applications. Physical Review Letters, 2000, 85, 3564-3567.	7.8	215