

Badri Krishnan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

3,591
citations

25
h-index

56
g-index

56
ext. papers

4,145
ext. citations

5.2
avg, IF

5.48
L-index

#	Paper	IF	Citations
53	Isolated and Dynamical Horizons and Their Applications. <i>Living Reviews in Relativity</i> , 2004 , 7, 10	32.5	467
52	The PyCBC search for gravitational waves from compact binary coalescence. <i>Classical and Quantum Gravity</i> , 2016 , 33, 215004	3.3	263
51	Dynamical horizons and their properties. <i>Physical Review D</i> , 2003 , 68,	4.9	227
50	Isolated horizons: Hamiltonian evolution and the first law. <i>Physical Review D</i> , 2000 , 62,	4.9	223
49	Introduction to isolated horizons in numerical relativity. <i>Physical Review D</i> , 2003 , 67,	4.9	199
48	Dynamical horizons: energy, angular momentum, fluxes, and balance laws. <i>Physical Review Letters</i> , 2002 , 89, 261101	7.4	192
47	Generic isolated horizons and their applications. <i>Physical Review Letters</i> , 2000 , 85, 3564-7	7.4	186
46	Black-hole spectroscopy: testing general relativity through gravitational-wave observations. <i>Classical and Quantum Gravity</i> , 2004 , 21, 787-803	3.3	156
45	Spin flips and precession in black-hole-binary mergers. <i>Physical Review D</i> , 2007 , 75,	4.9	148
44	Stringent constraints on neutron-star radii from multimessenger observations and nuclear theory. <i>Nature Astronomy</i> , 2020 , 4, 625-632	12.1	147
43	Detecting gravitational wave emission from the known accreting neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 389, 839-868	4.3	140
42	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,	4.9	116
41	Hough transform search for continuous gravitational waves. <i>Physical Review D</i> , 2004 , 70,	4.9	111
40	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	3.3	98
39	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	4.7	87
38	Introduction to dynamical horizons in numerical relativity. <i>Physical Review D</i> , 2006 , 74,	4.9	82
37	Low significance of evidence for black hole echoes in gravitational wave data. <i>Physical Review D</i> , 2018 , 97,	4.9	71

36	Targeted search for continuous gravitational waves: Bayesian versus maximum-likelihood statistics. <i>Classical and Quantum Gravity</i> , 2009 , 26, 204013	3.3	61
35	Improved stack-slide searches for gravitational-wave pulsars. <i>Physical Review D</i> , 2005 , 72,	4.9	61
34	Nonsymmetric trapped surfaces in the Schwarzschild and Vaidya spacetimes. <i>Physical Review D</i> , 2006 , 73,	4.9	56
33	DISTORTED BLACK HOLES WITH CHARGE. <i>International Journal of Modern Physics D</i> , 2001 , 10, 691-709	2.2	41
32	Cross-correlation search for periodic gravitational waves. <i>Physical Review D</i> , 2008 , 77,	4.9	40
31	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009 , 26, 114008	3.3	36
30	Observational tests of the black hole area increase law. <i>Physical Review D</i> , 2018 , 97,	4.9	32
29	Quasilocal linear momentum in black-hole binaries. <i>Physical Review D</i> , 2007 , 76,	4.9	30
28	Einstein@Home search for continuous gravitational waves from Cassiopeia A. <i>Physical Review D</i> , 2016 , 94,	4.9	25
27	Dynamics of marginally trapped surfaces in a binary black hole merger: Growth and approach to equilibrium. <i>Physical Review D</i> , 2018 , 97,	4.9	24
26	Existence of initial data containing isolated black holes. <i>Physical Review D</i> , 2005 , 71,	4.9	22
25	Optimal directed searches for continuous gravitational waves. <i>Physical Review D</i> , 2016 , 93,	4.9	21
24	Slicing dependence of nonspherically symmetric quasilocal horizons in Vaidya spacetimes. <i>Physical Review D</i> , 2011 , 83,	4.9	19
23	Fundamental properties and applications of quasi-local black hole horizons. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114005	3.3	18
22	The spacetime in the neighborhood of a general isolated black hole. <i>Classical and Quantum Gravity</i> , 2012 , 29, 205006	3.3	17
21	Improved Hough search for gravitational wave pulsars. <i>Journal of Physics: Conference Series</i> , 2006 , 32, 206-211	0.3	16
20	Search for Continuous Gravitational Waves from Scorpius X-1 in LIGO O2 Data. <i>Astrophysical Journal Letters</i> , 2021 , 906, L14	7.9	16
19	Existence and stability of marginally trapped surfaces in black-hole spacetimes. <i>Physical Review D</i> , 2019 , 99,	4.9	13

18	Black hole spectroscopy in the next decade. <i>Physical Review D</i> , 2020 , 101,	4.9	13
17	Detecting gravitational waves from accreting neutron stars. <i>Advances in Space Research</i> , 2009 , 43, 1049-1054		13
16	Self-intersecting marginally outer trapped surfaces. <i>Physical Review D</i> , 2019 , 100,	4.9	11
15	Optimally setting up directed searches for continuous gravitational waves in Advanced LIGO O1 data. <i>Physical Review D</i> , 2018 , 97,	4.9	10
14	Interior of a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2019 , 123, 171102	7.4	10
13	Detectability of the subdominant mode in a binary black hole ringdown. <i>Physical Review D</i> , 2020 , 102,	4.9	10
12	Searching for numerically simulated signals from black-hole binaries with a phenomenological template family. <i>Classical and Quantum Gravity</i> , 2009 , 26, 114010	3.3	9
11	Inferring the gravitational wave memory for binary coalescence events. <i>Physical Review D</i> , 2021 , 103,	4.9	9
10	Resampling to accelerate cross-correlation searches for continuous gravitational waves from binary systems. <i>Physical Review D</i> , 2018 , 97,	4.9	8
9	Wide parameter search for isolated pulsars using the Hough transform. <i>Classical and Quantum Gravity</i> , 2005 , 22, S1265-S1275	3.3	8
8	News from Horizons in Binary Black Hole Mergers. <i>Physical Review Letters</i> , 2020 , 125, 121101	7.4	6
7	Stochastic template bank for gravitational wave searches for precessing neutron-star/black-hole coalescence events. <i>Physical Review D</i> , 2017 , 95,	4.9	5
6	Quasinormal modes and their overtones at the common horizon in a binary black hole merger. <i>Physical Review D</i> , 2021 , 103,	4.9	5
5	Swift Pointing and the Association between Gamma-Ray Bursts and Gravitational Wave Bursts. <i>Astrophysical Journal</i> , 2004 , 607, 384-390	4.7	4
4	Quasi-local Black Hole Horizons 2014 , 527-555		4
3	Tidal deformations of spinning black holes in BowenYork initial data. <i>Classical and Quantum Gravity</i> , 2015 , 32, 045009	3.3	3
2	Swift pointing and gravitational-wave bursts from gamma-ray burst events. <i>Classical and Quantum Gravity</i> , 2003 , 20, S815-S820	3.3	1
1	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,	4.9	1

