Nikhil Mukund

List of Publications by Year
in descending order

23 papers	2,160 citations	567281 15 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	3232 citing authors

#	Article	IF	Citations
1	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
2	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
3	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
4	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
5	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. Physical Review D, 2019, 99, .	4.7	77
6	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
7	Transient classification in LIGO data using difference boosting neural network. Physical Review D, 2017, 95, .	4.7	57
8	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
9	First Demonstration of 6ÂdB Quantum Noise Reduction in a Kilometer Scale Gravitational Wave Observatory. Physical Review Letters, 2021, 126, 041102.	7.8	50
10	Direct limits for scalar field dark matter from a gravitational-wave detector. Nature, 2021, 600, 424-428.	27.8	43
11	Implications of Dedicated Seismometer Measurements on Newtonian-Noise Cancellation for Advanced LIGO. Physical Review Letters, 2018, 121, 221104.	7.8	35
12	Towards a first design of a Newtonian-noise cancellation system for Advanced LIGO. Classical and Quantum Gravity, 2016, 33, 244001.	4.0	34
13	Control strategy to limit duty cycle impact of earthquakes on the LIGO gravitational-wave detectors. Classical and Quantum Gravity, 2018, 35, 055004.	4.0	22
14	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
15	Limiting the effects of earthquakes on gravitational-wave interferometers. Classical and Quantum Gravity, 2017, 34, 044004.	4.0	17
16	Improving significance of binary black hole mergers in Advanced LIGO data using deep learning: Confirmation of GW151216. Physical Review D, 2021, 104, .	4.7	12
17	Ground motion prediction at gravitational wave observatories using archival seismic data. Classical and Quantum Gravity, 2019, 36, 085005.	4.0	11
18	Improving the robustness of the advanced LIGO detectors to earthquakes. Classical and Quantum Gravity, 2020, 37, 235007.	4.0	11

#	Article	IF	Citations
19	An Information Retrieval and Recommendation System for Astronomical Observatories. Astrophysical Journal, Supplement Series, 2018, 235, 22.	7.7	9
20	Bilinear noise subtraction at the GEO 600 observatory. Physical Review D, 2020, 101, .	4.7	8
21	Effect of induced seismicity on advanced gravitational wave interferometers. Classical and Quantum Gravity, 2019, 36, 10LT01.	4.0	5
22	A machine learning approach for GRB detection in <i>AstroSat</i> CZTI data. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3084-3091.	4.4	2
23	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2