Marek J SzczepaÅ„czyk

List of Publications by Year
in descending order

24 papers	2,641 citations	516710 16 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	3660 citing authors

#	ARTICLE	IF	CITATIONS
1	Eccentricity estimate for black hole mergers with numerical relativity simulations. Nature Astronomy, 2022, 6, 344-349.	10.1	89
2	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
3	Search for binary black hole mergers in the third observing run of Advanced LIGO-Virgo using coherent WaveBurst enhanced with machine learning. Physical Review D, 2022, 105, .	4.7	9
4	Using supervised learning algorithms as a follow-up method in the search of gravitational waves from core-collapse supernovae. Physical Review D, 2022, 105, .	4.7	4
5	Modeling core-collapse supernovae gravitational-wave memory in laser interferometric data. Physical Review D, 2022, 105, .	4.7	9
6	Gravitational Waves from a Core-Collapse Supernova: Perspectives with Detectors in the Late 2020s and Early 2030s. Galaxies, 2022, 10, 70.	3.0	4
7	Constraining the Time of Gravitational-wave Emission from Core-collapse Supernovae. Astrophysical Journal, 2022, 931, 159.	4.5	4
8	Observing an intermediate-mass black hole GW190521 with minimal assumptions. Physical Review D, 2021, 103, .	4.7	19
9	LIGO detector characterization in the second and third observing runs. Classical and Quantum Gravity, 2021, 38, 135014.	4.0	128
10	coherent WaveBurst, a pipeline for unmodeled gravitational-wave data analysis. SoftwareX, 2021, 14, 100678.	2.6	37
11	Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336.	12.6	59
12	Optimization of model independent gravitational wave search for binary black hole mergers using machine learning. Physical Review D, 2021, 104, .	4.7	13
13	Detection of LIGO-Virgo binary black holes in the pair-instability mass gap. Physical Review D, 2021, 104, .	4.7	7
14	Detecting and reconstructing gravitational waves from the next galactic core-collapse supernova in the advanced detector era. Physical Review D, 2021, 104, .	4.7	35
15	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. Physical Review D, 2020, 102, .	4.7	196
16	Machine-learning nonstationary noise out of gravitational-wave detectors. Physical Review D, 2020, 101, .	4.7	70
17	Improving the background of gravitational-wave searches for core collapse supernovae: a machine learning approach. Machine Learning: Science and Technology, 2020, 1, 015005.	5.0	24
18	Interpreting gravitational-wave burst detections: constraining source properties without astrophysical models. Classical and Quantum Gravity, 2020, 37, 105011.	4.0	1

#	Article	IF	Citations
19	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107.	7.8	359
20	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
21	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
22	Inferring the core-collapse supernova explosion mechanism with three-dimensional gravitational-wave simulations. Physical Review D, 2017, 96, .	4.7	25
23	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
24	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427