Maria Principe

List of Publications by Year
in descending order

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Version: 2024-02-01

41 papers	2,551 citations	430442 18 h-index	414034 32 g-index
41 all docs	41 docs citations	41 times ranked	3951 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.	8.2	808
2	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	8.2	427
3	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. Physical Review D, 2016, 93, .	1.6	286
4	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	1.5	225
5	Optical fiber meta-tips. Light: Science and Applications, 2017, 6, e16226-e16226.	7.7	122
6	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461.	1.6	90
7	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. Physical Review D, 2019, 99, .	1.6	77
8	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	0.9	69
9	Metasurfaceâ€Enhanced Labâ€onâ€Fiber Biosensors. Laser and Photonics Reviews, 2020, 14, 2000180.	4.4	58
10	Measurement of thermal noise in multilayer coatings with optimized layer thickness. Physical Review D, 2010, 81, .	1.6	55
11	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.	1.6	52
12	Thickness-dependent crystallization on thermal anneal for titania/silica nm-layer composites deposited by ion beam sputter method. Optics Express, 2014, 22, 29847.	1.7	36
13	Optical properties of amorphous SiO2-TiO2 multi-nanolayered coatings for 1064-nm mirror technology. Optical Materials, 2018, 75, 94-101.	1.7	28
14	Supersymmetry-Inspired Non-Hermitian Optical Couplers. Scientific Reports, 2015, 5, 8568.	1.6	26
15	Material loss angles from direct measurements of broadband thermal noise. Physical Review D, 2015, 91, .	1.6	24
16	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102.	2.9	24
17	Evaluation of fiber-optic phase-gradient meta-tips for sensing applications. Nanomaterials and Nanotechnology, 2019, 9, 184798041983272.	1.2	20
18	Emergence and Evolution of Crystallization in TiO2 Thin Films: A Structural and Morphological Study. Nanomaterials, 2021, 11, 1409.	1.9	20

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19	Quantum correlation measurements in interferometric gravitational-wave detectors. Physical Review A, 2017, 95, .	1.0	16
20	Reflective coating optimization for interferometric detectors of gravitational waves. Optics Express, 2015, 23, 10938.	1.7	14
21	Modeling the impulsive noise component and its effect on the operation of a simple coherent network algorithm for detecting unmodeled gravitational wave bursts. Classical and Quantum Gravity, 2008, 25, 075013.	1.5	12
22	On the performance limits of coatings for gravitational wave detectors made of alternating layers of two materials. Optical Materials, 2019, 96, 109269.	1.7	10
23	Locally optimum network detection of unmodelled gravitational wave bursts in an impulsive noise background. Classical and Quantum Gravity, 2009, 26, 045003.	1.5	7
24	Ternary quarter wavelength coatings for gravitational wave detector mirrors: Design optimization via exhaustive search. Physical Review Research, 2021, 3, .	1.3	7
25	Effects of transients in LIGO suspensions on searches for gravitational waves. Review of Scientific Instruments, 2017, 88, 124501.	0.6	6
26	Optical scattering measurements and implications on thermal noise in Gravitational Wave detectors test-mass coatings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2259-2264.	0.9	6
27	Design and Optimization of All-Dielectric Fluorescence Enhancing Metasurfaces: Towards Advanced Metasurface-Assisted Optrodes. Biosensors, 2022, 12, 264.	2.3	6
28	Locally optimum network detectors of unmodeled gravitational wave bursts in glitch noise. Physical Review D, 2017, 95, .	1.6	4
29	Sparsifying time-frequency distributions for gravitational wave data analysis. , 2015, , .		3
30	Detecting unmodeled GW bursts in non-Gaussian (glitchy) noise: two locally optimum network detectors. Classical and Quantum Gravity, 2009, 26, 204001.	1.5	2
31	Robust gravitational wave burst detection and source localization in a network of interferometers using cross-Wigner spectra. Classical and Quantum Gravity, 2012, 29, 045001.	1.5	2
32	Meta-tips for lab-on-fiber optrodes. , 2016, , .		2
33	A Multi-Step Approach to Assessing LIGO Test Mass Coatings. Journal of Physics: Conference Series, 2018, 957, 012010.	0.3	2
34	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
35	Optical fiber meta-tips: perspectives in sensing applications. Proceedings of SPIE, 2017, , .	0.8	1
36	Glitch entomology. , 2017, , .		1

#	Article	IF	Citations
37	Optical fiber meta-tips. , 2016, , .		1
38	Minimum noise optical coatings for interferometric detectors of gravitational waves. , 2014, , .		0
39	Optical fiber meta-tips. Proceedings of SPIE, 2016, , .	0.8	0
40	Annealing Effect on the Nano-meter Scale Tit.aniay Silica Multi-layers for Mirror Coatings of the Laser Interferometer Gravitational Waves Detector. , 2019, , .		0
41	Reflectivity and thickness optimization. , 0, , 173-195.		0