

# Maria Principe

## List of Publications by Year in Descending Order

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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.

36  
papers

1,832  
citations

15  
h-index

41  
g-index

41  
ext. papers

2,222  
ext. citations

6.1  
avg, IF

3.14  
L-index

#	Paper	IF	Citations
36	Design and Optimization of All-Dielectric Fluorescence Enhancing Metasurfaces: Towards Advanced Metasurface-Assisted Optrodes. <i>Biosensors</i> , <b>2022</b> , 12, 264	5.9	1
35	Emergence and Evolution of Crystallization in TiO Thin Films: A Structural and Morphological Study. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
34	Ternary quarter wavelength coatings for gravitational wave detector mirrors: Design optimization via exhaustive search. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
33	Metasurface-Enhanced Lab-on-Fiber Biosensors. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 2000180	8.3	28
32	On the performance limits of coatings for gravitational wave detectors made of alternating layers of two materials. <i>Optical Materials</i> , <b>2019</b> , 96, 109269	3.3	5
31	Evaluation of fiber-optic phase-gradient meta-tips for sensing applications. <i>Nanomaterials and Nanotechnology</i> , <b>2019</b> , 9, 184798041983272	2.9	12
30	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	58
29	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2018</b> , 21, 3	32.5	543
28	Optical scattering measurements and implications on thermal noise in Gravitational Wave detectors test-mass coatings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2018</b> , 382, 2259-2264	2.3	3
27	A Multi-Step Approach to Assessing LIGO Test Mass Coatings. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 957, 012010	0.3	1
26	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA <b>2018</b> , 21, 1		2
25	Optical properties of amorphous SiO <sub>2</sub> -TiO <sub>2</sub> multi-nanolayered coatings for 1064-nm mirror technology. <i>Optical Materials</i> , <b>2018</b> , 75, 94-101	3.3	15
24	Optical fiber meta-tips. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16226	16.7	70
23	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600209	2.6	45
22	Quantum correlation measurements in interferometric gravitational-wave detectors. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	9
21	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , <b>2017</b> , 841, 89	4.7	42
20	Optical fiber meta-tips: perspectives in sensing applications <b>2017</b> ,		1

19	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. <i>Physical Review Letters</i> , <b>2017</b> , 118, 151102	7.4	18
18	Effects of transients in LIGO suspensions on searches for gravitational waves. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 124501	1.7	4
17	Locally optimum network detectors of unmodeled gravitational wave bursts in glitch noise. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	3
16	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	208
15	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , <b>2016</b> , 33,	3.3	155
14	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , <b>2016</b> , 19, 1	32.5	393
13	Meta-tips for lab-on-fiber optrodes <b>2016</b> ,		1
12	Supersymmetry-inspired non-Hermitian optical couplers. <i>Scientific Reports</i> , <b>2015</b> , 5, 8568	4.9	21
11	Material loss angles from direct measurements of broadband thermal noise. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	21
10	Reflective coating optimization for interferometric detectors of gravitational waves. <i>Optics Express</i> , <b>2015</b> , 23, 10938-56	3.3	10
9	Sparsifying time-frequency distributions for gravitational wave data analysis <b>2015</b> ,		0
8	Thickness-dependent crystallization on thermal anneal for titania/silica nm-layer composites deposited by ion beam sputter method. <i>Optics Express</i> , <b>2014</b> , 22, 29847-54	3.3	23
7	Robust gravitational wave burst detection and source localization in a network of interferometers using cross-Wigner spectra. <i>Classical and Quantum Gravity</i> , <b>2012</b> , 29, 045001	3.3	1
6	Measurement of thermal noise in multilayer coatings with optimized layer thickness. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	35
5	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , <b>2010</b> , 715, 1453-1461	4.7	79
4	Detecting unmodeled GW bursts in non-Gaussian (glitchy) noise: two locally optimum network detectors. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 204001	3.3	2
3	Locally optimum network detection of unmodelled gravitational wave bursts in an impulsive noise background. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 045003	3.3	6
2	Modeling the impulsive noise component and its effect on the operation of a simple coherent network algorithm for detecting unmodeled gravitational wave bursts. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 075013	3.3	12

1 Reflectivity and thickness optimization 173-195