

# Cinzia Di Giorgio

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,851  
citations

361388

20  
h-index

315719

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3326  
citing authors

#	ARTICLE	IF	CITATIONS
1	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$ . Physical Review Letters, 2020, 125, 101102.	7.8	706
2	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13.	8.3	406
3	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, .	4.7	394
4	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. Physical Review Letters, 2019, 123, 231108.	7.8	254
5	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. Physical Review Letters, 2019, 123, 161102.	7.8	119
6	Model comparison from LIGO's Virgo data on GW170817's binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006.	4.0	109
7	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. Physical Review D, 2020, 101, .	4.7	69
8	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21.	8.3	65
9	All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. Physical Review D, 2019, 100, .	4.7	54
10	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. Physical Review D, 2019, 100, .	4.7	52
11	Evolution of Metastable Defects and Its Effect on the Electronic Properties of MoS <sub>2</sub> Films. Scientific Reports, 2018, 8, 6724.	3.3	40
12	Engineered Creation of Periodic Giant, Nonuniform Strains in MoS <sub>2</sub> Monolayers. Advanced Materials Interfaces, 2020, 7, 2000621.	3.7	38
13	Evolution of the superconducting properties in $S_{1-x}FeSe_x$ . Physical Review B, 2015, 92, .	3.2	35
14	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. Physical Review Letters, 2020, 125, 131101.	7.8	35
15	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS <sub>2</sub> . Scientific Reports, 2017, 7, 40559.	3.3	32
16	Nanoscale Measurements of Elastic Properties and Hydrostatic Pressure in H <sub>2</sub> -Bulged MoS <sub>2</sub> Membranes. Advanced Materials Interfaces, 2020, 7, 2001024.	3.7	26
17	Ferromagnetism and Conductivity in Hydrogen Irradiated Co-Doped ZnO Thin Films. ACS Applied Materials & Interfaces, 2016, 8, 12925-12931.	8.0	25
18	Mechanical, Elastic, and Adhesive Properties of Two-Dimensional Materials: From Straining Techniques to State-of-the-Art Local Probe Measurements. Advanced Materials Interfaces, 2022, 9, .	3.7	24

#	ARTICLE	IF	CITATIONS
19	Vortex-antivortex coexistence in Nb-based superconductor/ferromagnet heterostructures. <i>Physical Review B</i> , 2014, 89, .	3.2	23
20	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019, 99, .	4.7	22
21	Emergence and Evolution of Crystallization in TiO <sub>2</sub> Thin Films: A Structural and Morphological Study. <i>Nanomaterials</i> , 2021, 11, 1409.	4.1	20
22	Calibration of advanced Virgo and reconstruction of the detector strain h(t) during the observing run O3. <i>Classical and Quantum Gravity</i> , 2022, 39, 045006.	4.0	20
23	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
24	Observation of superconducting vortex clusters in S/F hybrids. <i>Scientific Reports</i> , 2016, 6, 38557.	3.3	19
25	Vortex-core properties and vortex-lattice transformation in FeSe. <i>Physical Review B</i> , 2019, 99, .	3.2	15
26	Piezoelectricity and charge trapping in ZnO and Co-doped ZnO thin films. <i>AIP Advances</i> , 2017, 7, .	1.3	14
27	Effects of cobalt substitution on ZnO surface reactivity and electronic structure. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8364-8373.	5.5	13
28	Exceptional Elasticity of Microscale Constrained MoS <sub>2</sub> Domes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48228-48238.	8.0	13
29	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020, 893, 100.	4.5	12
30	On the performance limits of coatings for gravitational wave detectors made of alternating layers of two materials. <i>Optical Materials</i> , 2019, 96, 109269.	3.6	10
31	The advanced Virgo longitudinal control system for the O2 observing run. <i>Astroparticle Physics</i> , 2020, 116, 102386.	4.3	9
32	Ternary quarter wavelength coatings for gravitational wave detector mirrors: Design optimization via exhaustive search. <i>Physical Review Research</i> , 2021, 3, .	3.6	7
33	Quantitative magnetic force microscopy using calibration on superconducting flux quanta. <i>Nanotechnology</i> , 2019, 30, 314004.	2.6	6
34	Room-temperature ferromagnetism in oxidized-graphenic nanoplatelets induced by topographic defects. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 524, 167664.	2.3	5
35	Magnetic pinning in a superconducting film by a ferromagnetic layer with stripe domains. <i>Superconductor Science and Technology</i> , 2014, 27, 125002.	3.5	4
36	Anisotropic Superconducting Gaps and Boson Mode in FeSe 1 $\hat{a}$ <sup>~</sup> x S x Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 763-768.	1.8	2

#	ARTICLE	IF	CITATIONS
37	Metastable defects in monolayer and few-layer films of MoS <sub>2</sub> . AIP Conference Proceedings, 2018, , .	0.4	1
38	Superconducting Vortex-Antivortex Pairs: Nucleation and Confinement in Magnetically Coupled Superconductor-Ferromagnet Hybrids. , 0, , .		0