

# JosÃ© M Caridad

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,326  
citations

361413

20  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Vapor-Deposited Graphene on Ultraflat Copper Foils for van der Waals Hetero-Assembly. ACS Omega, 2022, 7, 22626-22632.	3.5	5
2	Controlled generation of luminescent centers in hexagonal boron nitride by irradiation engineering. Science Advances, 2021, 7, .	10.3	51
3	Effective electrical resistivity in a square array of oriented square inclusions. Nanotechnology, 2021, 32, 185706.	2.6	3
4	Detection of the Faraday Chiral Anisotropy. Physical Review Letters, 2021, 126, 177401.	7.8	23
5	Unraveling the electronic properties of graphene with substitutional oxygen. 2D Materials, 2021, 8, 045035.	4.4	9
6	Spontaneous adsorption of ions on graphene at the electrolyte-graphene interface. Applied Physics Letters, 2020, 117, 203102.	3.3	1
7	Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. 2D Materials, 2020, 7, 035009.	4.4	23
8	Observation of 2D Conduction in Ultrathin Germanium Arsenide Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 12998-13004.	8.0	40
9	Impact of Impurities on the Electrical Conduction of Anisotropic Two-Dimensional Materials. Physical Review Applied, 2020, 13, .	3.8	16
10	Gate electrostatics and quantum capacitance in ballistic graphene devices. Physical Review B, 2019, 99, .	3.2	4
11	Electrostatics of metal-graphene interfaces: sharp $\pi$ junctions for electron-optical applications. Nanoscale, 2019, 11, 10273-10281.	5.6	15
12	Lithographic band structure engineering of graphene. Nature Nanotechnology, 2019, 14, 340-346.	31.5	82
13	Conductance quantization suppression in the quantum Hall regime. Nature Communications, 2018, 9, 659.	12.8	25
14	High-quality graphene flakes exfoliated on a flat hydrophobic polymer. Applied Physics Letters, 2018, 112, .	3.3	8
15	Control of the plasmonic near-field in metallic nanohelices. Nanotechnology, 2018, 29, 325204.	2.6	10
16	A Graphene-Edge Ferroelectric Molecular Switch. Nano Letters, 2018, 18, 4675-4683.	9.1	21
17	A two-dimensional Dirac fermion microscope. Nature Communications, 2017, 8, 15783.	12.8	72
18	Hot-Volumes as Uniform and Reproducible SERS-Detection Enhancers in Weakly-Coupled Metallic Nanohelices. Scientific Reports, 2017, 7, 45548.	3.3	20

#	ARTICLE	IF	CITATIONS
19	Sputtering an exterior metal coating on copper enclosure for large-scale growth of single-crystalline graphene. 2D Materials, 2017, 4, 045017.	4.4	17
20	Quality assessment of graphene: Continuity, uniformity, and accuracy of mobility measurements. Nano Research, 2017, 10, 3596-3605.	10.4	31
21	The hot pick-up technique for batch assembly of van der Waals heterostructures. Nature Communications, 2016, 7, 11894.	12.8	446
22	An electrical analogy to Mie scattering. Nature Communications, 2016, 7, 12894.	12.8	40
23	Chiral Ag nanostructure arrays as optical antennas. , 2015, , .		1
24	High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. RSC Advances, 2015, 5, 66711-66717.	3.6	22
25	Graphene mobility mapping. Scientific Reports, 2015, 5, 12305.	3.3	89
26	Effective Wavelength Scaling of and Damping in Plasmonic Helical Antennae. ACS Photonics, 2015, 2, 675-679.	6.6	23
27	Graphene transport properties upon exposure to PMMA processing and heat treatments. 2D Materials, 2014, 1, 035005.	4.4	73
28	Controllable growth of metallic nano-helices at room temperature conditions. Applied Physics Letters, 2014, 105, .	3.3	22
29	Transfer induced compressive strain in graphene: Evidence from Raman spectroscopic mapping. Microelectronic Engineering, 2014, 121, 113-117.	2.4	32
30	Automated detection and characterization of graphene and few-layer graphite via Raman spectroscopy. Journal of Raman Spectroscopy, 2011, 42, 286-293.	2.5	28
31	Effects of particle contamination and substrate interaction on the Raman response of unintentionally doped graphene. Journal of Applied Physics, 2010, 108, .	2.5	52
32	Plateau-insulator transition in graphene. New Journal of Physics, 2010, 12, 053004.	2.9	22