

# Jairo Velasco

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,546  
citations

687363

13  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological valley transport at bilayer graphene domain walls. <i>Nature</i> , 2015, 520, 650-655.	27.8	502
2	Characterization and manipulation of individual defects in insulating hexagonal boron nitride using scanning tunnelling microscopy. <i>Nature Nanotechnology</i> , 2015, 10, 949-953.	31.5	192
3	Imaging electrostatically confined Dirac fermions in graphene quantum dots. <i>Nature Physics</i> , 2016, 12, 1032-1036.	16.7	176
4	Direct Growth of Single- and Few-Layer MoS <sub>2</sub> on h-BN with Preferred Relative Rotation Angles. <i>Nano Letters</i> , 2015, 15, 6324-6331.	9.1	172
5	Evidence for a spontaneous gapped state in ultraclean bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10802-10805.	7.1	107
6	Nanoscale Control of Rewriteable Doping Patterns in Pristine Graphene/Boron Nitride Heterostructures. <i>Nano Letters</i> , 2016, 16, 1620-1625.	9.1	60
7	Molecular Arrangement and Charge Transfer in C <sub>60</sub> /Graphene Heterostructures. <i>ACS Nano</i> , 2017, 11, 4686-4693.	14.6	60
8	Visualization and Control of Single-Electron Charging in Bilayer Graphene Quantum Dots. <i>Nano Letters</i> , 2018, 18, 5104-5110.	9.1	41
9	Quantum Transport and Field-Induced Insulating States in Bilayer Graphene pnp Junctions. <i>Nano Letters</i> , 2010, 10, 4000-4004.	9.1	39
10	Visualizing the Effect of an Electrostatic Gate with Angle-Resolved Photoemission Spectroscopy. <i>Nano Letters</i> , 2019, 19, 2682-2687.	9.1	32
11	Nanowrinkled Carbon Aerogels Embedded with Fe <sub>Nx</sub> Sites as Effective Oxygen Electrodes for Rechargeable Zinc-Air Battery. <i>Research</i> , 2019, 2019, 6813585.	5.7	29
12	Visualization and Manipulation of Bilayer Graphene Quantum Dots with Broken Rotational Symmetry and Nontrivial Topology. <i>Nano Letters</i> , 2020, 20, 8682-8688.	9.1	20
13	Determination of the trigonal warping orientation in Bernal-stacked bilayer graphene via scanning tunneling microscopy. <i>Physical Review B</i> , 2020, 101, .	3.2	16
14	Control of Giant Topological Magnetic Moment and Valley Splitting in Trilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 136402.	7.8	14
15	Nanospot angle-resolved photoemission study of Bernal-stacked bilayer graphene on hexagonal boron nitride: Band structure and local variation of lattice alignment. <i>Physical Review B</i> , 2019, 99, .	3.2	13
16	Direct Visualization of Native Defects in Graphite and Their Effect on the Electronic Properties of Bernal-Stacked Bilayer Graphene. <i>Nano Letters</i> , 2021, 21, 7100-7108.	9.1	13
17	Ultrasharp Lateral p-n Junctions in Modulation-Doped Graphene. <i>Nano Letters</i> , 2022, 22, 4124-4130.	9.1	12
18	Gate-Tunable Magnetism and Giant Magnetoresistance in Suspended Rhombohedral-Stacked Few-Layer Graphene. <i>Nano Letters</i> , 2022, 22, 5094-5099.	9.1	12

#	ARTICLE	IF	CITATIONS
19	Persistent and reversible electrostatic control of doping in graphene/hexagonal boron nitride heterostructures. Journal of Applied Physics, 2020, 127, 044303.	2.5	8
20	Imaging Quantum Interference in Stadium-Shaped Monolayer and Bilayer Graphene Quantum Dots. Nano Letters, 2021, 21, 8993-8998.	9.1	7
21	Quasiparticle interference patterns in bilayer graphene with trigonal warping. Physical Review B, 2021, 104, .	3.2	6
22	Comprehensive Electrostatic Modeling of Exposed Quantum Dots in Graphene/Hexagonal Boron Nitride Heterostructures. Nanomaterials, 2020, 10, 1154.	4.1	5
23	Sublattice Dependence and Gate Tunability of Midgap and Resonant States Induced by Native Dopants in Bernal-Stacked Bilayer Graphene. Physical Review Letters, 2021, 127, 106401.	7.8	4
24	Surface states and quasiparticle interference in Bernal and rhombohedral graphite with and without trigonal warping. Physical Review B, 2021, 104, .	3.2	4
25	Probing the electronic structure of graphene near and far from the Fermi level via planar tunneling spectroscopy. Applied Physics Letters, 2019, 115, 163504.	3.3	2