

Andrs Rafael Botello Mndez

List of Publications by Citations

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23
papers

3,440
citations

18
h-index

24
g-index

24
ext. papers

3,792
ext. citations

9.5
avg, IF

4.72
L-index

#	Paper	IF	Citations
23	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. <i>Scientific Reports</i> , 2013 , 3,	4.9	911
22	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , 2010 , 5, 351-372	17.9	695
21	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. <i>Scientific Reports</i> , 2012 , 2, 586	4.9	517
20	Longitudinal cutting of pure and doped carbon nanotubes to form graphitic nanoribbons using metal clusters as nanoscalpels. <i>Nano Letters</i> , 2010 , 10, 366-72	11.5	284
19	Electrical transport measured in atomic carbon chains. <i>Nano Letters</i> , 2013 , 13, 3487-93	11.5	169
18	Magnetic behavior in zinc oxide zigzag nanoribbons. <i>Nano Letters</i> , 2008 , 8, 1562-5	11.5	138
17	Localized state and charge transfer in nitrogen-doped graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	117
16	Electronic and transport properties of unbalanced sublattice N-doping in graphene. <i>Nano Letters</i> , 2013 , 13, 1446-50	11.5	96
15	Electronic and optical properties of pristine and oxidized borophene. <i>2D Materials</i> , 2016 , 3, 045006	5.9	94
14	Correlating atomic structure and transport in suspended graphene nanoribbons. <i>Nano Letters</i> , 2014 , 14, 4238-44	11.5	62
13	Quantum transport in graphene nanonetworks. <i>Nano Letters</i> , 2011 , 11, 3058-64	11.5	55
12	Spin polarized conductance in hybrid graphene nanoribbons using 5-7 defects. <i>ACS Nano</i> , 2009 , 3, 3606-16.7	16.7	52
11	Millimeter-long carbon nanotubes: outstanding electron-emitting sources. <i>ACS Nano</i> , 2011 , 5, 5072-7	16.7	44
10	CVD synthesis of mono- and few-layer graphene using alcohols at low hydrogen concentration and atmospheric pressure. <i>Chemical Physics Letters</i> , 2013 , 584, 142-146	2.5	36
9	Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. <i>ACS Nano</i> , 2015 , 9, 7009-18	16.7	34
8	Enhanced ferromagnetism in ZnO nanoribbons and clusters passivated with sulfur. <i>Nano Research</i> , 2008 , 1, 420-426	10	32
7	Unconventional molecule-resolved current rectification in diamondoid-fullerene hybrids. <i>Nature Communications</i> , 2014 , 5, 4877	17.4	23

6	Raman spectrum of Janus transition metal dichalcogenide monolayers WSSe and MoSSe. <i>Physical Review B</i> , 2021 , 103,	3.3	20
5	Effect of impurities on the electronic and magnetic properties of zinc oxide nanostructures. <i>Chemical Physics Letters</i> , 2010 , 492, 82-88	2.5	18
4	The electronic and transport properties of two-dimensional conjugated polymer networks including disorder. <i>Nanoscale</i> , 2016 , 8, 1642-51	7.7	17
3	Achievements of DFT for the investigation of graphene-related nanostructures. <i>Accounts of Chemical Research</i> , 2014 , 47, 3292-300	24.3	14
2	Toward an Accurate Tight-Binding Model of Graphene's Electronic Properties under Strain. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15753-15760	3.8	12
1	Charge doping zirconium nitride halide monolayers. <i>Chemical Physics Letters</i> , 2021 , 786, 139128	2.5	