

Andrés Rafael Botello Mández

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

4,133
citations

393982

19
h-index

610482

24
g-index

24
all docs

24
docs citations

24
times ranked

7941
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. Scientific Reports, 2013, 3, .	1.6	1,185
2	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. Nano Today, 2010, 5, 351-372.	6.2	817
3	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	1.6	563
4	Longitudinal Cutting of Pure and Doped Carbon Nanotubes to Form Graphitic Nanoribbons Using Metal Clusters as Nanoscalpels. Nano Letters, 2010, 10, 366-372.	4.5	323
5	Electrical Transport Measured in Atomic Carbon Chains. Nano Letters, 2013, 13, 3487-3493.	4.5	192
6	Magnetic Behavior in Zinc Oxide Zigzag Nanoribbons. Nano Letters, 2008, 8, 1562-1565.	4.5	150
7	Localized state and charge transfer in nitrogen-doped graphene. Physical Review B, 2012, 85, .	1.1	134
8	Electronic and optical properties of pristine and oxidized borophene. 2D Materials, 2016, 3, 045006.	2.0	123
9	Electronic and Transport Properties of Unbalanced Sublattice N-Doping in Graphene. Nano Letters, 2013, 13, 1446-1450.	4.5	110
10	Quantum Transport in Graphene Nanonetworks. Nano Letters, 2011, 11, 3058-3064.	4.5	71
11	Correlating Atomic Structure and Transport in Suspended Graphene Nanoribbons. Nano Letters, 2014, 14, 4238-4244.	4.5	71
12	Raman spectrum of Janus transition metal dichalcogenide monolayers WSSe and MoSSe. Physical Review B, 2021, 103, .	1.1	63
13	Spin Polarized Conductance in Hybrid Graphene Nanoribbons Using 5 ⁺ Defects. ACS Nano, 2009, 3, 3606-3612.	7.3	60
14	Millimeter-Long Carbon Nanotubes: Outstanding Electron-Emitting Sources. ACS Nano, 2011, 5, 5072-5077.	7.3	50
15	CVD synthesis of mono- and few-layer graphene using alcohols at low hydrogen concentration and atmospheric pressure. Chemical Physics Letters, 2013, 584, 142-146.	1.2	43
16	Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. ACS Nano, 2015, 9, 7009-7018.	7.3	41
17	Enhanced ferromagnetism in ZnO nanoribbons and clusters passivated with sulfur. Nano Research, 2008, 1, 420-426.	5.8	36
18	Unconventional molecule-resolved current rectification in diamondoid–fullerene hybrids. Nature Communications, 2014, 5, 4877.	5.8	28

#	ARTICLE	IF	CITATIONS
19	The electronic and transport properties of two-dimensional conjugated polymer networks including disorder. <i>Nanoscale</i> , 2016, 8, 1642-1651.	2.8	19
20	Effect of impurities on the electronic and magnetic properties of zinc oxide nanostructures. <i>Chemical Physics Letters</i> , 2010, 492, 82-88.	1.2	18
21	Achievements of DFT for the Investigation of Graphene-Related Nanostructures. <i>Accounts of Chemical Research</i> , 2014, 47, 3292-3300.	7.6	15
22	Toward an Accurate Tight-Binding Model of Graphene's Electronic Properties under Strain. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15753-15760.	1.5	15
23	Angle-dependent electron confinement in graphene moiré superlattices. <i>Physical Review B</i> , 2021, 104, .	1.1	5
24	Charge doping zirconium nitride halide monolayers. <i>Chemical Physics Letters</i> , 2022, 786, 139128.	1.2	1