

# Humberto Rodrguez Gutierrez

## List of Publications by Citations

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27  
papers

7,376  
citations

15  
h-index

29  
g-index

29  
ext. papers

8,456  
ext. citations

13.3  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
27	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 2898-926	16.7	3414
26	Extraordinary room-temperature photoluminescence in triangular WS <sub>2</sub> monolayers. <i>Nano Letters</i> , <b>2013</b> , 13, 3447-54	11.5	1145
25	Identification of individual and few layers of WS <sub>2</sub> using Raman Spectroscopy. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	911
24	Strong room-temperature ferromagnetism in VSe monolayers on van der Waals substrates. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 289-293	28.7	795
23	Photosensor Device Based on Few-Layered WS <sub>2</sub> Films. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5511-5517	3.6	480
22	One-pot growth of two-dimensional lateral heterostructures via sequential edge-epitaxy. <i>Nature</i> , <b>2018</b> , 553, 63-67	50.4	272
21	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , <b>2015</b> , 10, 559-592	17.9	84
20	Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. <i>ACS Nano</i> , <b>2019</b> , 13, 12372-12384	16.7	50
19	Polarized Raman scattering from single GaP nanowires. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	30
18	Photoluminescence from nanocrystalline graphite monofluoride. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 14191-14194	1.54	29
17	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3755-3762	15.6	28
16	Laser-Assisted Chemical Modification of Monolayer Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802949	15.6	26
15	Probing nano-heterogeneity and aging effects in lateral 2D heterostructures using tip-enhanced photoluminescence. <i>Optical Materials Express</i> , <b>2019</b> , 9, 1620	2.6	23
14	Nitrogen/Boron Heterodoping of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 8481-8490	3.08	19
13	Biexcitons in monolayer transition metal dichalcogenides tuned by magnetic fields. <i>Nature Communications</i> , <b>2018</b> , 9, 3720	17.4	19
12	Probing Phonons in Nonpolar Semiconducting Nanowires with Raman Spectroscopy. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-18	3.5	13
11	Large-Area Growth and Stability of Monolayer Gallium Monochalcogenides for Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7879-7887	5.6	8

10	Single-Pore versus Dual-Pore Bipyridine-Based Covalent-Organic Frameworks: An Insight into the Heterogeneous Catalytic Activity for Selective C?H Functionalization. <i>Small</i> , <b>2021</b> , 17, e2003970	11	8
9	Two-Dimensional Layered Materials Offering Expanded Applications in Flatland. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6134-6139	5.6	6
8	Sensors: Photosensor Device Based on Few-Layered WS2 Films (Adv. Funct. Mater. 44/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5510-5510	15.6	5
7	Bandgap Engineering in 2D Lateral Heterostructures of Transition Metal Dichalcogenides via Controlled Alloying.. <i>Small</i> , <b>2022</b> , e2106600	11	4
6	Facile Morphological Qualification of Transferred Graphene by Phase-Shifting Interferometry. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002854	24	3
5			
4	CovalentOrganic Frameworks: Single-Pore versus Dual-Pore Bipyridine-Based CovalentOrganic Frameworks: An Insight into the Heterogeneous Catalytic Activity for Selective C?H Functionalization (Small 22/2021). <i>Small</i> , <b>2021</b> , 17, 2170109	11	1
3	Thermal Phase Control of Two-Dimensional Pt-Chalcogenide (Se and Te) Ultrathin Epitaxial Films and Nanocrystals. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 8018-8027	9.6	0
2	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3714-3714	15.6	
1	Graphene: Facile Morphological Qualification of Transferred Graphene by Phase-Shifting Interferometry (Adv. Mater. 38/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070288	24	