

Ana Laura Elias

List of Publications by Citations

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78
papers

8,230
citations

35
h-index

83
g-index

83
ext. papers

9,317
ext. citations

11.1
avg, IF

5.51
L-index

#	Paper	IF	Citations
78	Extraordinary room-temperature photoluminescence in triangular WS ₂ monolayers. <i>Nano Letters</i> , 2013 , 13, 3447-54	11.5	1145
77	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. <i>Scientific Reports</i> , 2013 , 3,	4.9	911
76	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , 2010 , 5, 351-372	17.9	695
75	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. <i>Scientific Reports</i> , 2012 , 2, 586	4.9	517
74	Photosensor Device Based on Few-Layered WS ₂ Films. <i>Advanced Functional Materials</i> , 2013 , 23, 5511-5517	3.6	480
73	Controlled synthesis and transfer of large-area WS ₂ sheets: from single layer to few layers. <i>ACS Nano</i> , 2013 , 7, 5235-42	16.7	453
72	Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , 2014 , 14, 442-9	11.5	378
71	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
70	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , 2018 , 28, 1707134	15.6	254
69	Extraordinary Second Harmonic Generation in tungsten disulfide monolayers. <i>Scientific Reports</i> , 2014 , 4, 5530	4.9	214
68	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018 , 8, 1701616	21.8	174
67	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. <i>2D Materials</i> , 2014 , 1, 011004	5.9	170
66	Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. <i>Nature Communications</i> , 2014 , 5, 4867	17.4	167
65	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , 2017 , 3, e1602813	14.3	154
64	Super-stretchable graphene oxide macroscopic fibers with outstanding knotability fabricated by dry film scrolling. <i>ACS Nano</i> , 2014 , 8, 5959-67	16.7	150
63	Ultrasensitive gas detection of large-area boron-doped graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14527-32	11.5	146
62	Graphene Shape Control by Multistage Cutting and Transfer. <i>Advanced Materials</i> , 2009 , 21, 4487-4491	24	133

61	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. <i>Science Advances</i> , 2016 , 2, e1600322	14.3	125
60	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys (WMoS) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. <i>ACS Nano</i> , 2017 , 11, 5103-5112	16.7	116
59	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. <i>ACS Nano</i> , 2015 , 9, 11658-11667	16.7	107
58	Electrochemical characterization of liquid phase exfoliated two-dimensional layers of molybdenum disulfide. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2125-30	9.5	97
57	Three-dimensional nitrogen-doped multiwall carbon nanotube sponges with tunable properties. <i>Nano Letters</i> , 2013 , 13, 5514-20	11.5	97
56	Large-area Si-doped graphene: controllable synthesis and enhanced molecular sensing. <i>Advanced Materials</i> , 2014 , 26, 7593-9	24	91
55	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , 2015 , 10, 559-592	17.9	84
54	Facile synthesis of MoS ₂ and Mo _x W _{1-x} S ₂ triangular monolayers. <i>APL Materials</i> , 2014 , 2, 092514	5.7	75
53	Carbon doping of WS monolayers: Bandgap reduction and p-type doping transport. <i>Science Advances</i> , 2019 , 5, eaav5003	14.3	70
52	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS ₂ monolayers produced by different growth methods. <i>Journal of Materials Research</i> , 2016 , 31, 931-944	22.5	68
51	MoS ₂ monolayers on nanocavities: enhancement in light-matter interaction. <i>2D Materials</i> , 2016 , 3, 025017	17.9	62
50	Ultra-light carbon nanotube sponge as an efficient electromagnetic shielding material in the GHz range. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 698-704	2.5	59
49	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800055	5.9	56
48	Viability studies of pure carbon- and nitrogen-doped nanotubes with <i>Entamoeba histolytica</i> : from amoebicidal to biocompatible structures. <i>Small</i> , 2007 , 3, 1723-9	11	53
47	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15005-15014	9.5	48
46	Universal Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020 , 14, 4326-4335	16.7	44
45	Ultrafast Intrinsic Photoresponse and Direct Evidence of Sub-gap States in Liquid Phase Exfoliated MoS ₂ Thin Films. <i>Scientific Reports</i> , 2015 , 5, 11272	4.9	43
44	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2016 , 16, 6982-6987	11.5	40

43	Third order nonlinear optical response exhibited by mono- and few-layers of WS ₂ . <i>2D Materials</i> , 2016 , 3, 021005	5.9	35
42	Excitonic Effects in Tungsten Disulfide Monolayers on Two-Layer Graphene. <i>ACS Nano</i> , 2016 , 10, 7840-6	16.7	34
41	Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2012 , 22, 1069-1075	15.6	33
40	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020 , 7, 2001174	13.6	33
39	Defect Coupling and Sub-Angstrom Structural Distortions in WMoS Monolayers. <i>Nano Letters</i> , 2017 , 17, 2802-2808	11.5	32
38	Ultrashort optical pulse characterization using WS ₂ monolayers. <i>Optics Letters</i> , 2014 , 39, 383-5	3	30
37	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. <i>Advanced Functional Materials</i> , 2013 , 23, 3755-3762	15.6	28
36	Spontaneous chemical functionalization via coordination of Au single atoms on monolayer MoS ₂ . <i>Science Advances</i> , 2020 , 6,	14.3	22
35	The influence of carbon nanotubes characteristics in their performance as positive electrodes in vanadium redox flow batteries. <i>Sustainable Energy Technologies and Assessments</i> , 2015 , 9, 105-110	4.7	21
34	Nitrogen-Boron Heterodoping of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8481-8490	9.8	19
33	Clean Transfer of 2D Transition Metal Dichalcogenides Using Cellulose Acetate for Atomic Resolution Characterizations. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5320-5328	5.6	17
32	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS ₂ nanoribbons. <i>2D Materials</i> , 2015 , 2, 015002	5.9	17
31	Graphene nanoribbons inducing cube-shaped Ag nanoparticle assemblies. <i>Carbon</i> , 2015 , 93, 800-811	10.4	15
30	Raman spectroscopy revealing noble gas adsorption on single-walled carbon nanotube bundles. <i>Carbon</i> , 2018 , 127, 312-319	10.4	15
29	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 4985-4993	15.6	14
28	Light-Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion. <i>Advanced Materials</i> , 2018 , 30, 1703321	24	12
27	Temperature- and power-dependent phonon properties of suspended continuous WS ₂ monolayer films. <i>Vibrational Spectroscopy</i> , 2016 , 86, 270-276	2.1	11
26	Quantification and Healing of Defects in Atomically Thin Molybdenum Disulfide: Beyond the Controlled Creation of Atomic Defects. <i>ACS Nano</i> , 2021 , 15, 9658-9669	16.7	11

25	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , 2016 , 10, 5006-14	16.7	7
24	Facile 1D graphene fiber synthesis from an agricultural by-product: A silicon-mediated graphenization route. <i>Carbon</i> , 2019 , 142, 78-88	10.4	7
23	Probing the interaction of noble gases with pristine and nitrogen-doped graphene through Raman spectroscopy. <i>Physical Review B</i> , 2018 , 97,	3.3	7
22	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , 2020 , 7, 045020	5.9	6
21	Sensors: Photosensor Device Based on Few-Layered WS ₂ Films (Adv. Funct. Mater. 44/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 5510-5510	15.6	5
20	Low temperature activation of inert hexagonal boron nitride for metal deposition and single atom catalysis. <i>Materials Today</i> , 2021 ,	21.8	5
19	Pine-tree-like morphologies of nitrogen-doped carbon nanotubes: Electron field emission enhancement. <i>Journal of Materials Research</i> , 2014 , 29, 2441-2450	2.5	4
18	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19685-19693	11.5	4
17	Polysulphone composite membranes modified with two types of carbon additives as a potential material for bone tissue regeneration. <i>Bulletin of Materials Science</i> , 2017 , 40, 201-212	1.7	3
16	Stable and solid pellets of functionalized multi-walled carbon nanotubes produced under high pressure and temperature. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	3
15	Individual Mo Dopant Atoms in WS ₂ Monolayers: Atomic Structure and Induced Strain. <i>Microscopy and Microanalysis</i> , 2015 , 21, 435-436	0.5	3
14	Atomic-scale Observation of Grains and Grain Boundaries in Monolayers of WS ₂ . <i>Microscopy and Microanalysis</i> , 2014 , 20, 1084-1085	0.5	2
13	Covalent Networks: 3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties (Adv. Funct. Mater. 31/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 4922-4922	15.6	2
12	Three-dimensional Nanotube Networks and a New Horizon of Applications 2014 , 457-493		2
11	Integration of Nitrogen-Doped Graphene Oxide Dots with Au Nanoparticles for Enhanced Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> ,	5.6	2
10	Multiple excitations and temperature study of the disorder-induced Raman bands in MoS ₂ . <i>2D Materials</i> , 2021 , 8, 035042	5.9	2
9	Carbon Nanotubes: Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes (Adv. Funct. Mater. 5/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1098-1098	15.6	1
8	MoS ₂ Monolayers on Nanocavities: Enhanced Light-Matter Interaction within Atomic Monolayers 2016 ,		1

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6	Functional Pd/reduced graphene oxide nanocomposites: effect of reduction degree and doping in hydrodechlorination catalytic activity. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	○
5	Hybrid materials based on pyrrhotite, troilite, and few-layered graphitic nanostructures: Synthesis, characterization, and cyclic voltammetry studies. <i>Applied Surface Science</i> , 2021 , 563, 150327	6.7	○
4	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3714-3714	15.6	
3	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). <i>Advanced Materials</i> , 2014 , 26, 7676-7676	24	
2	Reversible fusion-fission fibers. <i>Science</i> , 2021 , 372, 573	33.3	
1	Evolution of spectroscopy features in layered MoS _x Se _(2-x) solid solutions. <i>Materials Research Express</i> , 2022 , 9, 046301	1.7	