

Ana Laura Elias

List of Publications by Year in descending order

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83
papers

10,314
citations

81839

39
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71651

76
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83
all docs

83
docs citations

83
times ranked

15392
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraordinary Room-Temperature Photoluminescence in Triangular WS ₂ Monolayers. Nano Letters, 2013, 13, 3447-3454.	4.5	1,375
2	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. Scientific Reports, 2013, 3, .	1.6	1,185
3	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. Nano Today, 2010, 5, 351-372.	6.2	817
4	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	1.6	563
5	Photosensor Device Based on Few-layered WS ₂ Films. Advanced Functional Materials, 2013, 23, 5511-5517.	7.8	546
6	Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242.	7.3	534
7	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. Nano Letters, 2014, 14, 442-449.	4.5	463
8	Scalable and Highly Efficient Mesoporous Wood-based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. Advanced Functional Materials, 2018, 28, 1707134.	7.8	366
9	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
10	Extraordinary Second Harmonic Generation in Tungsten Disulfide Monolayers. Scientific Reports, 2014, 4, 5530.	1.6	262
11	High-performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. Advanced Energy Materials, 2018, 8, 1701616.	10.2	255
12	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. Science Advances, 2017, 3, e1602813.	4.7	213
13	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. 2D Materials, 2014, 1, 011004.	2.0	195
14	Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. Nature Communications, 2014, 5, 4867.	5.8	192
15	Ultrasensitive gas detection of large-area boron-doped graphene. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14527-14532.	3.3	177
16	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. Science Advances, 2016, 2, e1600322.	4.7	174
17	Super-stretchable Graphene Oxide Macroscopic Fibers with Outstanding Knotability Fabricated by Dry Film Scrolling. ACS Nano, 2014, 8, 5959-5967.	7.3	170
18	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys (W _x Mo _{1-x} S ₂) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. ACS Nano, 2017, 11, 5103-5112.	7.3	157

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19	Graphene Shape Control by Multistage Cutting and Transfer. <i>Advanced Materials</i> , 2009, 21, 4487-4491.	11.1	149
20	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. <i>ACS Nano</i> , 2015, 9, 11658-11666.	7.3	123
21	Electrochemical Characterization of Liquid Phase Exfoliated Two-Dimensional Layers of Molybdenum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2125-2130.	4.0	121
22	Carbon doping of WS ₂ monolayers: Bandgap reduction and p-type doping transport. <i>Science Advances</i> , 2019, 5, eaav5003.	4.7	119
23	Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing. <i>Advanced Materials</i> , 2014, 26, 7593-7599.	11.1	116
24	Three-Dimensional Nitrogen-Doped Multiwall Carbon Nanotube Sponges with Tunable Properties. <i>Nano Letters</i> , 2013, 13, 5514-5520.	4.5	110
25	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , 2015, 10, 559-592.	6.2	107
26	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020, 7, 2001174.	5.6	104
27	Universal <i>In Situ</i> Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020, 14, 4326-4335.	7.3	100
28	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.	1.2	95
29	Facile synthesis of MoS ₂ and Mo _x W _{1-x} S ₂ triangular monolayers. <i>APL Materials</i> , 2014, 2, .	2.2	93
30	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.	1.2	78
31	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800055.	2.7	78
32	MoS ₂ monolayers on nanocavities: enhancement in light-matter interaction. <i>2D Materials</i> , 2016, 3, 025017.	2.0	72
33	Viability Studies of Pure Carbon- and Nitrogen-Doped Nanotubes with <i>Entamoeba histolytica</i> : From Amoebicidal to Biocompatible Structures. <i>Small</i> , 2007, 3, 1723-1729.	5.2	59
34	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15005-15014.	4.0	59
35	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.	1.6	57
36	Spontaneous chemical functionalization via coordination of Au single atoms on monolayer MoS ₂ . <i>Science Advances</i> , 2020, 6, .	4.7	56

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37	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2016, 16, 6982-6987.	4.5	48
38	Third order nonlinear optical response exhibited by mono- and few-layers of WS ₂ . 2D Materials, 2016, 3, 021005.	2.0	46
39	Defect Coupling and Sub-Angstrom Structural Distortions in W _{1-x} Mo _x S ₂ Monolayers. Nano Letters, 2017, 17, 2802-2808.	4.5	42
40	Excitonic Effects in Tungsten Disulfide Monolayers on Two-Layer Graphene. ACS Nano, 2016, 10, 7840-7846.	7.3	39
41	Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes. Advanced Functional Materials, 2012, 22, 1069-1075.	7.8	38
42	Quantification and Healing of Defects in Atomically Thin Molybdenum Disulfide: Beyond the Controlled Creation of Atomic Defects. ACS Nano, 2021, 15, 9658-9669.	7.3	37
43	Ultrashort optical pulse characterization using WS ₂ monolayers. Optics Letters, 2014, 39, 383.	1.7	33
44	Clean Transfer of 2D Transition Metal Dichalcogenides Using Cellulose Acetate for Atomic Resolution Characterizations. ACS Applied Nano Materials, 2019, 2, 5320-5328.	2.4	33
45	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. Advanced Functional Materials, 2013, 23, 3755-3762.	7.8	31
46	Raman spectroscopy revealing noble gas adsorption on single-walled carbon nanotube bundles. Carbon, 2018, 127, 312-319.	5.4	26
47	The influence of carbon nanotubes characteristics in their performance as positive electrodes in vanadium redox flow batteries. Sustainable Energy Technologies and Assessments, 2015, 9, 105-110.	1.7	25
48	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS ₂ nanoribbons. 2D Materials, 2015, 2, 015002.	2.0	24
49	Nitrogen-Silicon Heterodoping of Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 8481-8490.	1.5	19
50	Accurate virus identification with interpretable Raman signatures by machine learning. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	19
51	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. Advanced Functional Materials, 2015, 25, 4985-4993.	7.8	18
52	Low temperature activation of inert hexagonal boron nitride for metal deposition and single atom catalysis. Materials Today, 2021, 51, 108-116.	8.3	16
53	Graphene nanoribbons inducing cube-shaped Ag nanoparticle assemblies. Carbon, 2015, 93, 800-811.	5.4	15
54	Temperature- and power-dependent phonon properties of suspended continuous WS ₂ monolayer films. Vibrational Spectroscopy, 2016, 86, 270-276.	1.2	15

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55	Facile 1D graphene fiber synthesis from an agricultural by-product: A silicon-mediated graphenization route. Carbon, 2019, 142, 78-88.	5.4	14
56	Light-Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion. Advanced Materials, 2018, 30, 1703321.	11.1	13
57	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. 2D Materials, 2020, 7, 045020.	2.0	10
58	Integration of Nitrogen-Doped Graphene Oxide Dots with Au Nanoparticles for Enhanced Electrocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 11513-11525.	2.4	10
59	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. ACS Nano, 2016, 10, 5006-5014.	7.3	9
60	Sensors: Photosensor Device Based on Few-Layered WS ₂ Films (Adv. Funct. Mater. 44/2013). Advanced Functional Materials, 2013, 23, 5510-5510.	7.8	7
61	Probing the interaction of noble gases with pristine and nitrogen-doped graphene through Raman spectroscopy. Physical Review B, 2018, 97, .	1.1	7
62	Leaving defects out of 2D molybdenum disulfide. Nature Electronics, 2022, 5, 19-20.	13.1	7
63	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19685-19693.	3.3	6
64	Multiple excitations and temperature study of the disorder-induced Raman bands in MoS ₂ . 2D Materials, 2021, 8, 035042.	2.0	6
65	3d transition metal coordination on monolayer MoS ₂ : a facile doping method to functionalize surfaces. Nanoscale, 2022, 14, 10801-10815.	2.8	5
66	Pine-tree-like morphologies of nitrogen-doped carbon nanotubes: Electron field emission enhancement. Journal of Materials Research, 2014, 29, 2441-2450.	1.2	4
67	Hybrid materials based on pyrrhotite, troilite, and few-layered graphitic nanostructures: Synthesis, characterization, and cyclic voltammetry studies. Applied Surface Science, 2021, 563, 150327.	3.1	4
68	Atomic-scale Observation of Grains and Grain Boundaries in Monolayers of WS ₂ . Microscopy and Microanalysis, 2014, 20, 1084-1085.	0.2	3
69	Individual Mo Dopant Atoms in WS ₂ Monolayers: Atomic Structure and Induced Strain. Microscopy and Microanalysis, 2015, 21, 435-436.	0.2	3
70	Stable and solid pellets of functionalized multi-walled carbon nanotubes produced under high pressure and temperature. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	3
71	Polysulphone composite membranes modified with two types of carbon additives as a potential material for bone tissue regeneration. Bulletin of Materials Science, 2017, 40, 201-212.	0.8	3
72	Three-dimensional Nanotube Networks and a New Horizon of Applications. , 2014, , 457-493.		2

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73	Covalent Networks: 3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties (Adv. Funct. Mater. 31/2015). Advanced Functional Materials, 2015, 25, 4922-4922.	7.8	2
74	Functional Pd/reduced graphene oxide nanocomposites: effect of reduction degree and doping in hydrodechlorination catalytic activity. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	2
75	Selective Synthesis of Bi ₂ Te ₃ /WS ₂ Heterostructures with Strong Interlayer Coupling. ACS Applied Materials & Interfaces, 2020, , .	4.0	2
76	Carbon Nanotubes: Catalytic Twistâ€Spun Yarns of Nitrogenâ€Doped Carbon Nanotubes (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 T	7.8	1
77	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. , 0, .		1
78	MoS ₂ Monolayers on Nanocavities: Enhanced Light-Matter Interaction within Atomic Monolayers. , 2016, , .		1
79	Enhancement in Light-Matter Interaction within Atomic MoS ₂ Monolayers on Nanocavities. , 2016, , .		1
80	Evolution of spectroscopy features in layered MoS _x Se _(2-x) solid solutions. Materials Research Express, 2022, 9, 046301.	0.8	1
81	Nanoribbons: Nitrogenâ€Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv.) Tj ETQq1_1_0.784314 rgBT /M	7.8	0
82	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). Advanced Materials, 2014, 26, 7676-7676.	11.1	0
83	Reversible fusion-fission fibers. Science, 2021, 372, 573-573.	6.0	0