

Luis A Jauregui

List of Publications by Year in descending order

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44
papers

5,293
citations

172386
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docs citations

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9456
citing authors

#	ARTICLE	IF	CITATIONS
1	Control and characterization of individual grains and grain boundaries in graphene grown by chemical vapour deposition. <i>Nature Materials</i> , 2011, 10, 443-449.	13.3	1,356
2	Rational Synthesis of Ultrathin n-Type Bi ₂ Te ₃ Nanowires with Enhanced Thermoelectric Properties. <i>Nano Letters</i> , 2012, 12, 56-60.	4.5	276
3	Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons. <i>Nature Nanotechnology</i> , 2017, 12, 856-860.	15.6	270
4	Electrical control of interlayer exciton dynamics in atomically thin heterostructures. <i>Science</i> , 2019, 366, 870-875.	6.0	255
5	Low-Temperature Ohmic Contact to Monolayer MoS ₂ by van der Waals Bonded Co ₂ h</i>-BN Electrodes. <i>Nano Letters</i> , 2017, 17, 4781-4786.	4.5	233
6	Wafer-scale synthesis of graphene by chemical vapor deposition and its application in hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 296-300.	4.0	226
7	Effect of oxygen plasma etching on graphene studied using Raman spectroscopy and electronic transport measurements. <i>New Journal of Physics</i> , 2011, 13, 025008.	1.2	211
8	Nontoxic and Abundant Copper Zinc Tin Sulfide Nanocrystals for Potential High-Temperature Thermoelectric Energy Harvesting. <i>Nano Letters</i> , 2012, 12, 540-545.	4.5	206
9	Growth of Single Crystal Graphene Arrays by Locally Controlling Nucleation on Polycrystalline Cu Using Chemical Vapor Deposition. <i>Advanced Materials</i> , 2011, 23, 4898-4903.	11.1	172
10	Large Excitonic Reflectivity of Monolayer MoSe_2 in Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2018, 120, 037402.	2.9	165
11	Electronic transport in chemical vapor deposited graphene synthesized on Cu: Quantum Hall effect and weak localization. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	160
12	Effect of electron-beam irradiation on graphene field effect devices. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	154
13	Electrical control of charged carriers and excitons in atomically thin materials. <i>Nature Nanotechnology</i> , 2018, 13, 128-132.	15.6	142
14	Observation of Low Energy Raman Modes in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2013, 13, 3594-3601.	4.5	137
15	Electronic properties of grains and grain boundaries in graphene grown by chemical vapor deposition. <i>Solid State Communications</i> , 2011, 151, 1100-1104.	0.9	119
16	Design Principle of Telluride-Based Nanowire Heterostructures for Potential Thermoelectric Applications. <i>Nano Letters</i> , 2012, 12, 3627-3633.	4.5	117
17	Thermal Transport in Graphene Nanostructures: Experiments and Simulations. <i>ECS Transactions</i> , 2010, 28, 73-83.	0.3	110
18	Excitons in a reconstructed moiré potential in twisted WSe ₂ /WSe ₂ homobilayers. <i>Nature Materials</i> , 2021, 20, 480-487.	13.3	109

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19	Polariton nanophotonics using phase-change materials. Nature Communications, 2019, 10, 4487.	5.8	106
20	Electrical and thermal conductivities of reduced graphene oxide/polystyrene composites. Applied Physics Letters, 2014, 104, .	1.5	103
21	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. Science Advances, 2018, 4, eaat7189.	4.7	100
22	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. Nature Nanotechnology, 2016, 11, 345-351.	15.6	93
23	Selective excitation and imaging of ultraslow phonon polaritons in thin hexagonal boron nitride crystals. Light: Science and Applications, 2018, 7, 27.	7.7	75
24	Scanning gate microscopy on graphene: charge inhomogeneity and extrinsic doping. Nanotechnology, 2011, 22, 295705.	1.3	50
25	Gate Tunable Relativistic Mass and Berry's phase in Topological Insulator Nanoribbon Field Effect Devices. Scientific Reports, 2015, 5, 8452.	1.6	48
26	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. ACS Nano, 2017, 11, 8741-8746.	7.3	48
27	Electrically Tunable Exciton-Plasmon Coupling in a WSe ₂ Monolayer Embedded in a Plasmonic Crystal Cavity. Nano Letters, 2019, 19, 3543-3547.	4.5	32
28	SYNTHETIC GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION ON COPPER FOILS. International Journal of Modern Physics B, 2013, 27, 1341002.	1.0	30
29	Molecular biosensor based on a coordinated iron complex. Journal of Chemical Physics, 2009, 130, 105101.	1.2	29
30	Electrically controlled emission from singlet and triplet exciton species in atomically thin light-emitting diodes. Physical Review B, 2021, 103, .	1.1	26
31	Raman spectra and electron-phonon coupling in disordered graphene with gate-tunable doping. Journal of Applied Physics, 2014, 116, .	1.1	23
32	A DNA Sensor for Sequencing and Mismatches Based on Electron Transport Through Watson-Crick and Non-Watson-Crick Base Pairs. IEEE Sensors Journal, 2008, 8, 803-814.	2.4	22
33	Transverse Electronic Transport in Double-Stranded DNA Nucleotides. Journal of Physical Chemistry B, 2009, 113, 6230-6239.	1.2	21
34	Gate-tunable supercurrent and multiple Andreev reflections in a superconductor-topological insulator nanoribbon-superconductor hybrid device. Applied Physics Letters, 2018, 112, .	1.5	21
35	Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy. ACS Photonics, 2018, 5, 1196-1201.	3.2	15
36	In-surface confinement of topological insulator nanowire surface states. Applied Physics Letters, 2015, 107, 121605.	1.5	14

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37	Impedance measurements on a DNA junction. Journal of Chemical Physics, 2008, 128, 201103.	1.2	10
38	Graphene: Growth of Single Crystal Graphene Arrays by Locally Controlling Nucleation on Polycrystalline Cu Using Chemical Vapor Deposition (Adv. Mater. 42/2011). Advanced Materials, 2011, 23, 4897-4897.	11.1	4
39	Transversal Characteristics of DNA devices. , 2008, , .		2
40	Anomalous photo-thermal effects in multi-layered semi-Dirac black phosphorus. Journal of Applied Physics, 2021, 130, 054303.	1.1	2
41	Imaging of Ultra-Confined Phonon Polaritons in Hexagonal Boron Nitride on Gold. , 2018, , .		1
42	Towards NEMS Fluid Sensors Based on Suspended Nanomaterials. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	0
43	Topological surface state transport and current saturation in topological insulator nanoribbons field effect transistors. , 2014, , .		0
44	New nano-photonics based on vdW materials. , 2018, , .		0