

Luis A Jauregui

List of Publications by Year in descending order

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44
papers

5,293
citations

172207
29
h-index

301761
39
g-index

44
all docs

44
docs citations

44
times ranked

9456
citing authors

#	ARTICLE	IF	CITATIONS
1	Excitons in a reconstructed moiré potential in twisted WSe ₂ /WSe ₂ homobilayers. Nature Materials, 2021, 20, 480-487.	13.3	109
2	Electrically controlled emission from singlet and triplet exciton species in atomically thin light-emitting diodes. Physical Review B, 2021, 103, .	1.1	26
3	Anomalous photo-thermal effects in multi-layered semi-Dirac black phosphorus. Journal of Applied Physics, 2021, 130, 054303.	1.1	2
4	Electrical control of interlayer exciton dynamics in atomically thin heterostructures. Science, 2019, 366, 870-875.	6.0	255
5	Polariton nanophotonics using phase-change materials. Nature Communications, 2019, 10, 4487.	5.8	106
6	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
7	Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy. ACS Photonics, 2018, 5, 1196-1201.	3.2	15
8	Large Excitonic Reflectivity of Monolayer MoSe_2 in Hexagonal Boron Nitride. Physical Review Letters, 2018, 120, 037402.	2.9	165
9	Electrical control of charged carriers and excitons in atomically thin materials. Nature Nanotechnology, 2018, 13, 128-132.	15.6	142
10	Gate-tunable supercurrent and multiple Andreev reflections in a superconductor-topological insulator nanoribbon-superconductor hybrid device. Applied Physics Letters, 2018, 112, .	1.5	21
11	Selective excitation and imaging of ultraslow phonon polaritons in thin hexagonal boron nitride crystals. Light: Science and Applications, 2018, 7, 27.	7.7	75
12	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. Science Advances, 2018, 4, eaat7189.	4.7	100
13	Imaging of Ultra-Confined Phonon Polaritons in Hexagonal Boron Nitride on Gold. , 2018, , .		1
14	New nano-photonics based on vdW materials. , 2018, , .		0
15	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. ACS Nano, 2017, 11, 8741-8746.	7.3	48
16	Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons. Nature Nanotechnology, 2017, 12, 856-860.	15.6	270
17	Low-Temperature Ohmic Contact to Monolayer MoS ₂ by van der Waals Bonded Co ₂ /h-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	4.5	233
18	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. Nature Nanotechnology, 2016, 11, 345-351.	15.6	93

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19	Gate Tunable Relativistic Mass and Berry's phase in Topological Insulator Nanoribbon Field Effect Devices. Scientific Reports, 2015, 5, 8452.	1.6	48
20	In-surface confinement of topological insulator nanowire surface states. Applied Physics Letters, 2015, 107, 121605.	1.5	14
21	Raman spectra and electron-phonon coupling in disordered graphene with gate-tunable doping. Journal of Applied Physics, 2014, 116, .	1.1	23
22	Topological surface state transport and current saturation in topological insulator nanoribbons field effect transistors. , 2014, , .		0
23	Electrical and thermal conductivities of reduced graphene oxide/polystyrene composites. Applied Physics Letters, 2014, 104, .	1.5	103
24	Observation of Low Energy Raman Modes in Twisted Bilayer Graphene. Nano Letters, 2013, 13, 3594-3601.	4.5	137
25	SYNTHETIC GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION ON COPPER FOILS. International Journal of Modern Physics B, 2013, 27, 1341002.	1.0	30
26	Rational Synthesis of Ultrathin n-Type Bi ₂ Te ₃ Nanowires with Enhanced Thermoelectric Properties. Nano Letters, 2012, 12, 56-60.	4.5	276
27	Design Principle of Telluride-Based Nanowire Heterostructures for Potential Thermoelectric Applications. Nano Letters, 2012, 12, 3627-3633.	4.5	117
28	Nontoxic and Abundant Copper Zinc Tin Sulfide Nanocrystals for Potential High-Temperature Thermoelectric Energy Harvesting. Nano Letters, 2012, 12, 540-545.	4.5	206
29	Effect of oxygen plasma etching on graphene studied using Raman spectroscopy and electronic transport measurements. New Journal of Physics, 2011, 13, 025008.	1.2	211
30	Growth of Single Crystal Graphene Arrays by Locally Controlling Nucleation on Polycrystalline Cu Using Chemical Vapor Deposition. Advanced Materials, 2011, 23, 4898-4903.	11.1	172
31	Control and characterization of individual grains and grain boundaries in graphene grown by chemical vapour deposition. Nature Materials, 2011, 10, 443-449.	13.3	1,356
32	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
33	Electronic properties of grains and grain boundaries in graphene grown by chemical vapor deposition. Solid State Communications, 2011, 151, 1100-1104.	0.9	119
34	Scanning gate microscopy on graphene: charge inhomogeneity and extrinsic doping. Nanotechnology, 2011, 22, 295705.	1.3	50
35	Wafer-scale synthesis of graphene by chemical vapor deposition and its application in hydrogen sensing. Sensors and Actuators B: Chemical, 2010, 150, 296-300.	4.0	226
36	Effect of electron-beam irradiation on graphene field effect devices. Applied Physics Letters, 2010, 97, .	1.5	154

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37	Thermal Transport in Graphene Nanostructures: Experiments and Simulations. ECS Transactions, 2010, 28, 73-83.	0.3	110
38	Electronic transport in chemical vapor deposited graphene synthesized on Cu: Quantum Hall effect and weak localization. Applied Physics Letters, 2010, 96, .	1.5	160
39	Towards NEMS Fluid Sensors Based on Suspended Nanomaterials. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	0
40	Molecular biosensor based on a coordinated iron complex. Journal of Chemical Physics, 2009, 130, 105101.	1.2	29
41	Transverse Electronic Transport in Double-Stranded DNA Nucleotides. Journal of Physical Chemistry B, 2009, 113, 6230-6239.	1.2	21
42	Transversal Characteristics of DNA devices. , 2008, , .		2
43	A DNA Sensor for Sequencing and Mismatches Based on Electron Transport Through Watsonâ€Crick and Non-Watsonâ€Crick Base Pairs. IEEE Sensors Journal, 2008, 8, 803-814.	2.4	22
44	Impedance measurements on a DNA junction. Journal of Chemical Physics, 2008, 128, 201103.	1.2	10