Jia Grace Lu

List of Publications by Year
in descending order

64 papers	6,984 citations	136950 32 h-index	123424 61 g-index
65 all docs	65 docs citations	65 times ranked	8487 citing authors

#	Article	IF	Citations
1	Flux periodic oscillations and phase-coherent transport in GeTe nanowire-based devices. Nature Communications, 2021, 12, 754.	12.8	6
2	Microwave AC Resonance Induced Phase Change in Sb₂Te₃ Nanowires. Nano Letters, 2020, 20, 8668-8674.	9.1	1
3	Proximityâ€Effectâ€Induced Superconductivity in Nb/Sb 2 Te 3 â€Nanoribbon/Nb Junctions. Annalen Der Physik, 2020, 532, 2000273.	2.4	5
4	Fundamental Properties of Zinc Oxide Nanowires. , 2016, , 1292-1301.		0
5	Quantum Transport and Nano Angle-resolved Photoemission Spectroscopy on the Topological Surface States of Single Sb2Te3 Nanowires. Scientific Reports, 2016, 6, 29493.	3.3	43
6	Nature of AX Centers in Antimony-Doped Cadmium Telluride Nanobelts. Nano Letters, 2015, 15, 974-980.	9.1	10
7	Inertial spin alignment in a circular magnetic nanotube. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2083-2086.	2.1	1
8	Synthesis, Characterizations and Applications of Cadmium Chalcogenide Nanowires: A Review. Journal of Materials Science and Technology, 2015, 31, 556-572.	10.7	17
9	Core-shell structured Si/ZnO photovoltaics. Materials Letters, 2015, 140, 59-63.	2.6	9
10	Fundamental Properties of Zinc Oxide Nanowires. , 2015, , 1-10.		0
11	Amphoteric Nature of Sn in CdS Nanowires. Nano Letters, 2014, 14, 518-523.	9.1	32
12	Structural and optical verification of residual strain effect in single crystalline CdTe nanowires. Nano Research, 2014, 7, 228-235.	10.4	23
13	Continuous Wave Nanowire Lasing. Nano Letters, 2013, 13, 3602-3606.	9.1	52
14	Quantum-interference transport through surface layers of indium-doped ZnO nanowires. Nanotechnology, 2013, 24, 245203.	2.6	9
15	Phase coherent transport in InSb nanowires. Applied Physics Letters, 2012, 101, 082103.	3.3	15
16	Coreâ€“shell CdTeâ€“TiO2 nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23
17	Electronic Transport with Dielectric Confinement in Degenerate InN Nanowires. Nano Letters, 2012, 12, 2768-2772.	9.1	23
18	Field effect transistor based on single crystalline InSb nanowire. Journal of Materials Chemistry, 2011, 21, 2459.	6.7	54

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19	Flexible Symmetric Supercapacitors Based on TiO$_2$ and Carbon Nanotubes. IEEE Nanotechnology Magazine, 2011, 10, 706-709.	2.0	21
20	Prototype of a scalable coreâ€“shell Cu2O/TiO2 solar cell. Chemical Physics Letters, 2011, 501, 446-450.	2.6	71
21	Temperature-dependent photoconductance of heavily doped ZnO nanowires. Nano Research, 2011, 4, 1110-1116.	10.4	14
22	Formation of Anodic Aluminum Oxide with Serrated Nanochannels. Nano Letters, 2010, 10, 2766-2771.	9.1	106
23	Electrical conduction mechanisms in natively doped ZnO nanowires (II). Nanotechnology, 2010, 21, 145202.	2.6	21
24	Effects on Electronic Properties of Molecule Adsorption on CuO Surfaces and Nanowires. Journal of Physical Chemistry C, 2010, 114, 17120-17126.	3.1	115
25	Applications of Tunable TiO₂ Nanotubes as Nanotemplate and Photovoltaic Device. Chemistry of Materials, 2010, 22, 5707-5711.	6.7	74
26	Conductometric chemical sensor based on individual CuO nanowires. Nanotechnology, 2010, 21, 485502.	2.6	139
27	Self-Assembly of Periodic Serrated Nanostructures. Chemistry of Materials, 2009, 21, 253-258.	6.7	38
28	Weak Localization and Electronâ^'Electron Interactions in Indium-Doped ZnO Nanowires. Nano Letters, 2009, 9, 3991-3995.	9.1	50
29	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	14.9	68
30	Templateâ€based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. Advanced Materials, 2008, 20, 4575-4578.	21.0	92
31	ZnO Nanowire Field-Effect Transistors. IEEE Transactions on Electron Devices, 2008, 55, 2977-2987.	3.0	55
32	Temperature dependent conduction and UV induced metal-to-insulator transition in ZnO nanowires. Applied Physics Letters, 2008, 92, 212113.	3.3	49
33	Growth of p-type Si nanotubes by catalytic plasma treatments. Nanotechnology, 2008, 19, 365609.	2.6	12
34	Finite size effect in ZnO nanowires. Applied Physics Letters, 2007, 90, 113101.	3.3	115
35	Optical size effects in ultrathin ZnO nanowires. Nanotechnology, 2007, 18, 435701.	2.6	57
36	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. ChemPhysChem, 2007, 8, 57-61.	2.1	13

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37	High-performance ZnO nanowire field effect transistors. Applied Physics Letters, 2006, 89, 133113.	3.3	223
38	Chemical sensing with ZnO nanowire field-effect transistor. IEEE Nanotechnology Magazine, 2006, 5, 393-396.	2.0	80
39	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. Applied Physics Letters, 2006, 89, 213110.	3.3	114
40	Nanoscale antimony pH probe. , 2006, , .		0
41	Quasi-one-dimensional metal oxide materialsâ€"Synthesis, properties and applications. Materials Science and Engineering Reports, 2006, 52, 49-91.	31.8	526
42	Zinc Oxide Nanostructures: Synthesis and Properties. Journal of Nanoscience and Nanotechnology, 2005, 5, 1561-1573.	0.9	675
43	Î²-Ga2O3 nanowires: Synthesis, characterization, and p-channel field-effect transistor. Applied Physics Letters, 2005, 87, 222102.	3.3	118
44	Gate-refreshable nanowire chemical sensors. Applied Physics Letters, 2005, 86, 123510.	3.3	412
45	Spin dependent transport in ferromagnet/superconductor/ferromagnet single electron transistor. Journal of Applied Physics, 2005, 97, 10A708.	2.5	11
46	Structures and Electrical Properties of Agâ€"Tetracyanoquinodimethane Organometallic Nanowires. IEEE Nanotechnology Magazine, 2005, 4, 238-241.	2.0	53
47	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. Nano Letters, 2005, 5, 2528-2532.	9.1	176
48	Preface: To Professor Tinkham on his 75th Birthday. Journal of Superconductivity and Novel Magnetism, 2004, 17, 537-537.	0.5	0
49	Synthesis of Magnesium Borate (Mg2B2O5) Nanowires by Chemical Vapor Deposition Method. Chemistry of Materials, 2004, 16, 2512-2514.	6.7	92
50	Photoluminescence and polarized photodetection of single ZnO nanowires. Applied Physics Letters, 2004, 85, 6128-6130.	3.3	330
51	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. Chemistry of Materials, 2004, 16, 5133-5137.	6.7	340
52	ZnO nanowire field-effect transistor and oxygen sensing property. Applied Physics Letters, 2004, 85, 5923-5925.	3.3	766
53	Electrical transport in boron nanowires. Applied Physics Letters, 2003, 83, 5280-5282.	3.3	64
54	One dimensional transport in carbon nanotubes. Microelectronic Engineering, 1999, 47, 417-420.	2.4	17

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55	Luttinger-liquid behaviour in carbon nanotubes. Nature, 1999, 397, 598-601.	27.8	1,396
56	Parity effect in superconducting islands with increasing lengths. Physical Review B, 1998, 57, 120-122.	3.2	13
57	Effect of island length on the Coulomb modulation in single-electron transistors. Physical Review B, 1998, 57, 4591-4598.	3.2	8
58	Magnetic-field-induced crossover from 2etoeperiodicity in the superconducting single-electron transistor. Physical Review B, 1996, 53, 3543-3549.	3.2	17
59	Photon-activated switch behavior in the single-electron transistor with a superconducting island. Physical Review B, 1995, 51, 9407-9410.	3.2	44
60	The single-electron transistor as an ultrasensitive microwave detector. IEEE Transactions on Applied Superconductivity, 1995, 5, 2604-2607.	1.7	6
61	Temperature dependence of even-odd electron-number effects in the single-electron transistor with a superconducting island. Physical Review B, 1995, 51, 12649-12652.	3.2	25
62	Charge transport and photon-assisted tunneling in the NSN single-electron transistor. Physica B: Condensed Matter, 1994, 203, 327-339.	2.7	31
63	Enhanced high-field transport critical current density of superconducting bulk Y-Ba-Cu-O prepared by rapid solidification and directional annealing. Physical Review B, 1992, 46, 8509-8514.	3.2	7
64	High Tc superconductors prepared by rapid quenching and directional annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 127-131.	5.6	6