

# Jia Grace Lu

## List of Publications by Year in descending order

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64  
papers

6,984  
citations

136740

32  
h-index

123241

61  
g-index

65  
all docs

65  
docs citations

65  
times ranked

8487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luttinger-liquid behaviour in carbon nanotubes. <i>Nature</i> , 1999, 397, 598-601.	13.7	1,396
2	ZnO nanowire field-effect transistor and oxygen sensing property. <i>Applied Physics Letters</i> , 2004, 85, 5923-5925.	1.5	766
3	Zinc Oxide Nanostructures: Synthesis and Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1561-1573.	0.9	675
4	Quasi-one-dimensional metal oxide materials—Synthesis, properties and applications. <i>Materials Science and Engineering Reports</i> , 2006, 52, 49-91.	14.8	526
5	Gate-refreshable nanowire chemical sensors. <i>Applied Physics Letters</i> , 2005, 86, 123510.	1.5	412
6	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. <i>Chemistry of Materials</i> , 2004, 16, 5133-5137.	3.2	340
7	Photoluminescence and polarized photodetection of single ZnO nanowires. <i>Applied Physics Letters</i> , 2004, 85, 6128-6130.	1.5	330
8	High-performance ZnO nanowire field effect transistors. <i>Applied Physics Letters</i> , 2006, 89, 133113.	1.5	223
9	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. <i>Nano Letters</i> , 2005, 5, 2528-2532.	4.5	176
10	Conductometric chemical sensor based on individual CuO nanowires. <i>Nanotechnology</i> , 2010, 21, 485502.	1.3	139
11	$\text{In}^{2+}$ -Ga <sub>2</sub> O <sub>3</sub> nanowires: Synthesis, characterization, and p-channel field-effect transistor. <i>Applied Physics Letters</i> , 2005, 87, 222102.	1.5	118
12	Finite size effect in ZnO nanowires. <i>Applied Physics Letters</i> , 2007, 90, 113101.	1.5	115
13	Effects on Electronic Properties of Molecule Adsorption on CuO Surfaces and Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17120-17126.	1.5	115
14	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. <i>Applied Physics Letters</i> , 2006, 89, 213110.	1.5	114
15	Formation of Anodic Aluminum Oxide with Serrated Nanochannels. <i>Nano Letters</i> , 2010, 10, 2766-2771.	4.5	106
16	Synthesis of Magnesium Borate (Mg <sub>2</sub> B <sub>2</sub> O <sub>5</sub> ) Nanowires by Chemical Vapor Deposition Method. <i>Chemistry of Materials</i> , 2004, 16, 2512-2514.	3.2	92
17	Template-based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. <i>Advanced Materials</i> , 2008, 20, 4575-4578.	11.1	92
18	Chemical sensing with ZnO nanowire field-effect transistor. <i>IEEE Nanotechnology Magazine</i> , 2006, 5, 393-396.	1.1	80

#	ARTICLE	IF	CITATIONS
19	Applications of Tunable TiO <sub>2</sub> Nanotubes as Nanotemplate and Photovoltaic Device. Chemistry of Materials, 2010, 22, 5707-5711.	3.2	74
20	Prototype of a scalable core-shell Cu <sub>2</sub> O/TiO <sub>2</sub> solar cell. Chemical Physics Letters, 2011, 501, 446-450.	1.2	71
21	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	7.8	68
22	Electrical transport in boron nanowires. Applied Physics Letters, 2003, 83, 5280-5282.	1.5	64
23	Optical size effects in ultrathin ZnO nanowires. Nanotechnology, 2007, 18, 435701.	1.3	57
24	ZnO Nanowire Field-Effect Transistors. IEEE Transactions on Electron Devices, 2008, 55, 2977-2987.	1.6	55
25	Field effect transistor based on single crystalline InSb nanowire. Journal of Materials Chemistry, 2011, 21, 2459.	6.7	54
26	Structures and Electrical Properties of Ag-Tetracyanoquinodimethane Organometallic Nanowires. IEEE Nanotechnology Magazine, 2005, 4, 238-241.	1.1	53
27	Continuous Wave Nanowire Lasing. Nano Letters, 2013, 13, 3602-3606.	4.5	52
28	Weak Localization and Electron-Electron Interactions in Indium-Doped ZnO Nanowires. Nano Letters, 2009, 9, 3991-3995.	4.5	50
29	Temperature dependent conduction and UV induced metal-to-insulator transition in ZnO nanowires. Applied Physics Letters, 2008, 92, 212113.	1.5	49
30	Photon-activated switch behavior in the single-electron transistor with a superconducting island. Physical Review B, 1995, 51, 9407-9410.	1.1	44
31	Quantum Transport and Nano Angle-resolved Photoemission Spectroscopy on the Topological Surface States of Single Sb <sub>2</sub> Te <sub>3</sub> Nanowires. Scientific Reports, 2016, 6, 29493.	1.6	43
32	Self-Assembly of Periodic Serrated Nanostructures. Chemistry of Materials, 2009, 21, 253-258.	3.2	38
33	Amphoteric Nature of Sn in CdS Nanowires. Nano Letters, 2014, 14, 518-523.	4.5	32
34	Charge transport and photon-assisted tunneling in the NSN single-electron transistor. Physica B: Condensed Matter, 1994, 203, 327-339.	1.3	31
35	Temperature dependence of even-odd electron-number effects in the single-electron transistor with a superconducting island. Physical Review B, 1995, 51, 12649-12652.	1.1	25
36	Core-shell CdTe-TiO <sub>2</sub> nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23

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37	Electronic Transport with Dielectric Confinement in Degenerate InN Nanowires. Nano Letters, 2012, 12, 2768-2772.	4.5	23
38	Structural and optical verification of residual strain effect in single crystalline CdTe nanowires. Nano Research, 2014, 7, 228-235.	5.8	23
39	Electrical conduction mechanisms in natively doped ZnO nanowires (II). Nanotechnology, 2010, 21, 145202.	1.3	21
40	Flexible Symmetric Supercapacitors Based on TiO <sub>2</sub> and Carbon Nanotubes. IEEE Nanotechnology Magazine, 2011, 10, 706-709.	1.1	21
41	Magnetic-field-induced crossover from 2etoepiodicity in the superconducting single-electron transistor. Physical Review B, 1996, 53, 3543-3549.	1.1	17
42	One dimensional transport in carbon nanotubes. Microelectronic Engineering, 1999, 47, 417-420.	1.1	17
43	Synthesis, Characterizations and Applications of Cadmium Chalcogenide Nanowires: A Review. Journal of Materials Science and Technology, 2015, 31, 556-572.	5.6	17
44	Phase coherent transport in InSb nanowires. Applied Physics Letters, 2012, 101, 082103.	1.5	15
45	Temperature-dependent photoconductance of heavily doped ZnO nanowires. Nano Research, 2011, 4, 1110-1116.	5.8	14
46	Parity effect in superconducting islands with increasing lengths. Physical Review B, 1998, 57, 120-122.	1.1	13
47	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. ChemPhysChem, 2007, 8, 57-61.	1.0	13
48	Growth of p-type Si nanotubes by catalytic plasma treatments. Nanotechnology, 2008, 19, 365609.	1.3	12
49	Spin dependent transport in ferromagnet/superconductor/ferromagnet single electron transistor. Journal of Applied Physics, 2005, 97, 10A708.	1.1	11
50	Nature of AX Centers in Antimony-Doped Cadmium Telluride Nanobelts. Nano Letters, 2015, 15, 974-980.	4.5	10
51	Quantum-interference transport through surface layers of indium-doped ZnO nanowires. Nanotechnology, 2013, 24, 245203.	1.3	9
52	Core-shell structured Si/ZnO photovoltaics. Materials Letters, 2015, 140, 59-63.	1.3	9
53	Effect of island length on the Coulomb modulation in single-electron transistors. Physical Review B, 1998, 57, 4591-4598.	1.1	8
54	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.	1.1	7

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55	High Tc superconductors prepared by rapid quenching and directional annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 127-131.	2.6	6
56	The single-electron transistor as an ultrasensitive microwave detector. IEEE Transactions on Applied Superconductivity, 1995, 5, 2604-2607.	1.1	6
57	Flux periodic oscillations and phase-coherent transport in GeTe nanowire-based devices. Nature Communications, 2021, 12, 754.	5.8	6
58	Proximity Effect Induced Superconductivity in Nb/Sb <sub>2</sub> Te <sub>3</sub> Nanoribbon/Nb Junctions. Annalen Der Physik, 2020, 532, 2000273.	0.9	5
59	Inertial spin alignment in a circular magnetic nanotube. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2083-2086.	0.9	1
60	Microwave AC Resonance Induced Phase Change in Sb <sub>2</sub> Te <sub>3</sub> Nanowires. Nano Letters, 2020, 20, 8668-8674.	4.5	1
61	Preface: To Professor Tinkham on his 75th Birthday. Journal of Superconductivity and Novel Magnetism, 2004, 17, 537-537.	0.5	0
62	Nanoscale antimony pH probe. , 2006, , .		0
63	Fundamental Properties of Zinc Oxide Nanowires. , 2016, , 1292-1301.		0
64	Fundamental Properties of Zinc Oxide Nanowires. , 2015, , 1-10.		0