

# Jia G Lu

## List of Publications by Year in descending order

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40  
papers

3,632  
citations

279798

23  
h-index

434195

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-orbit torque nano-oscillator with giant magnetoresistance readout. Communications Physics, 2020, 3, .	5.3	12
2	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
3	Quantum theory of spin alignment in a circular magnetic nanotube. European Physical Journal B, 2015, 88, 1.	1.5	0
4	Metal Oxide Nanowires: Fundamentals and Sensor Applications. , 2013, , 287-319.		2
5	Core-shell CdTe-TiO <sub>2</sub> nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23
6	Flexible Dye-Sensitized Solar Cell Based on Vertical ZnO Nanowire Arrays. Nanoscale Research Letters, 2011, 6, 38.	5.7	38
7	Field effect transistor based on single crystalline InSb nanowire. Journal of Materials Chemistry, 2011, 21, 2459.	6.7	54
8	Quantum transport in indium nitride nanowires. Physical Review B, 2011, 83, .	3.2	12
9	Prototype of a scalable core-shell Cu <sub>2</sub> O/TiO <sub>2</sub> solar cell. Chemical Physics Letters, 2011, 501, 446-450.	2.6	71
10	Temperature-dependent photoconductance of heavily doped ZnO nanowires. Nano Research, 2011, 4, 1110-1116.	10.4	14
11	Reply to "Comment on "Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy". Physical Review B, 2010, 82, .	3.2	0
12	Formation of Anodic Aluminum Oxide with Serrated Nanochannels. Nano Letters, 2010, 10, 2766-2771.	9.1	106
13	Effects on Electronic Properties of Molecule Adsorption on CuO Surfaces and Nanowires. Journal of Physical Chemistry C, 2010, 114, 17120-17126.	3.1	115
14	Applications of Tunable TiO <sub>2</sub> Nanotubes as Nanotemplate and Photovoltaic Device. Chemistry of Materials, 2010, 22, 5707-5711.	6.7	74
15	Conductometric chemical sensor based on individual CuO nanowires. Nanotechnology, 2010, 21, 485502.	2.6	139
16	Self-Assembly of Periodic Serrated Nanostructures. Chemistry of Materials, 2009, 21, 253-258.	6.7	38
17	Weak Localization and Electron-Electron Interactions in Indium-Doped ZnO Nanowires. Nano Letters, 2009, 9, 3991-3995.	9.1	50
18	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	14.9	68

#	ARTICLE	IF	CITATIONS
19	Template-based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. <i>Advanced Materials</i> , 2008, 20, 4575-4578.	21.0	92
20	Growth of p-type Si nanotubes by catalytic plasma treatments. <i>Nanotechnology</i> , 2008, 19, 365609.	2.6	12
21	Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy. <i>Physical Review B</i> , 2008, 77, .	3.2	25
22	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. <i>ChemPhysChem</i> , 2007, 8, 57-61.	2.1	13
23	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. <i>Applied Physics Letters</i> , 2006, 89, 213110.	3.3	114
24	Polarized superconductors in nanostructures. <i>Journal of Applied Physics</i> , 2006, 99, 054314.	2.5	0
25	Chemical sensing with ZnO nanowire FETs. , 2005, , .		1
26	Electrical Properties of Boron Nanowires. <i>ACS Symposium Series</i> , 2005, , 362-375.	0.5	0
27	$\text{In}^2\text{-Ga}_2\text{O}_3$ nanowires: Synthesis, characterization, and p-channel field-effect transistor. <i>Applied Physics Letters</i> , 2005, 87, 222102.	3.3	118
28	Controlled p- and n-type doping of $\text{Fe}_2\text{O}_3$ nanobelt field effect transistors. <i>Applied Physics Letters</i> , 2005, 87, 013113.	3.3	114
29	Gate-refreshable nanowire chemical sensors. <i>Applied Physics Letters</i> , 2005, 86, 123510.	3.3	412
30	Spin dependent transport in ferromagnet/superconductor/ferromagnet single electron transistor. <i>Journal of Applied Physics</i> , 2005, 97, 10A708.	2.5	11
31	Electrical properties of ZnO nanowire field effect transistors characterized with scanning probes. <i>Applied Physics Letters</i> , 2005, 86, 032111.	3.3	129
32	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. <i>Nano Letters</i> , 2005, 5, 2528-2532.	9.1	176
33	Synthesis of Magnesium Borate ( $\text{Mg}_2\text{B}_2\text{O}_5$ ) Nanowires by Chemical Vapor Deposition Method.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
34	Synthesis of Magnesium Borate ( $\text{Mg}_2\text{B}_2\text{O}_5$ ) Nanowires by Chemical Vapor Deposition Method. <i>Chemistry of Materials</i> , 2004, 16, 2512-2514.	6.7	92
35	Photoluminescence and polarized photodetection of single ZnO nanowires. <i>Applied Physics Letters</i> , 2004, 85, 6128-6130.	3.3	330
36	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. <i>Chemistry of Materials</i> , 2004, 16, 5133-5137.	6.7	340

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37	ZnO nanowire field-effect transistor and oxygen sensing property. Applied Physics Letters, 2004, 85, 5923-5925.	3.3	766
38	Electrical transport in boron nanowires. Applied Physics Letters, 2003, 83, 5280-5282.	3.3	64
39	Chemical Sensing with ZnO Nanowire. , 0, , .		3
40	Chemical sensing with ZnO nanowire. , 0, , .		3