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	ZnO nanowire field-effect transistor and oxygen sensing property. Applied Physics Letters, 2004, 85, 5923-5925.	3.3	766
2	Gate-refreshable nanowire chemical sensors. Applied Physics Letters, 2005, 86, 123510.	3.3	412
3	ZnO Nanowires Synthesized by Vapor Trapping CVD Method. Chemistry of Materials, 2004, 16, 5133-5137.	6.7	340
4	Photoluminescence and polarized photodetection of single ZnO nanowires. Applied Physics Letters, 2004, 85, 6128-6130.	3.3	330
5	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. Nano Letters, 2005, 5, 2528-2532.	9.1	176
6	Conductometric chemical sensor based on individual CuO nanowires. Nanotechnology, 2010, 21, 485502.	2.6	139
7	Electrical properties of ZnO nanowire field effect transistors characterized with scanning probes. Applied Physics Letters, 2005, 86, 032111.	3.3	129
8	Î²-Ga2O3 nanowires: Synthesis, characterization, and p-channel field-effect transistor. Applied Physics Letters, 2005, 87, 222102.	3.3	118
9	Effects on Electronic Properties of Molecule Adsorption on CuO Surfaces and Nanowires. Journal of Physical Chemistry C, 2010, 114, 17120-17126.	3.1	115
10	Controlled p- and n-type doping of Fe2O3 nanobelt field effect transistors. Applied Physics Letters, 2005, 87, 013113.	3.3	114
11	Electrical and photoconductive properties of vertical ZnO nanowires in high density arrays. Applied Physics Letters, 2006, 89, 213110.	3.3	114
12	Formation of Anodic Aluminum Oxide with Serrated Nanochannels. Nano Letters, 2010, 10, 2766-2771.	9.1	106
13	Synthesis of Magnesium Borate (Mg2B2O5) Nanowires by Chemical Vapor Deposition Method. Chemistry of Materials, 2004, 16, 2512-2514.	6.7	92
14	Templateâ€based Synthesis and Magnetic Properties of Cobalt Nanotube Arrays. Advanced Materials, 2008, 20, 4575-4578.	21.0	92
15	Applications of Tunable TiO₂ Nanotubes as Nanotemplate and Photovoltaic Device. Chemistry of Materials, 2010, 22, 5707-5711.	6.7	74
16	Prototype of a scalable coreâ€“shell Cu2O/TiO2 solar cell. Chemical Physics Letters, 2011, 501, 446-450.	2.6	71
17	Shape Anisotropy and Magnetization Modulation in Hexagonal Cobalt Nanowires. Advanced Functional Materials, 2008, 18, 1573-1578.	14.9	68
18	Electrical transport in boron nanowires. Applied Physics Letters, 2003, 83, 5280-5282.	3.3	64

#	Article	IF	Citations
19	Field effect transistor based on single crystalline InSb nanowire. Journal of Materials Chemistry, 2011, 21, 2459.	6.7	54
20	Weak Localization and Electronâ'Electron Interactions in Indium-Doped ZnO Nanowires. Nano Letters, 2009, 9, 3991-3995.	9.1	50
21	Self-Assembly of Periodic Serrated Nanostructures. Chemistry of Materials, 2009, 21, 253-258.	6.7	38
22	Flexible Dye-Sensitized Solar Cell Based on Vertical ZnO Nanowire Arrays. Nanoscale Research Letters, 2011, 6, 38.	5.7	38
23	Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energy. Physical Review B, 2008, 77, .	3.2	25
24	Coreâ€"shell CdTeâ€"TiO2 nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23
25	Temperature-dependent photoconductance of heavily doped ZnO nanowires. Nano Research, 2011, 4, 1110-1116.	10.4	14
26	Vertically Aligned Antimony Nanowires as Solid-State pH Sensors. ChemPhysChem, 2007, 8, 57-61.	2.1	13
27	Growth of p-type Si nanotubes by catalytic plasma treatments. Nanotechnology, 2008, 19, 365609.	2.6	12
28	Quantum transport in indium nitride nanowires. Physical Review B, 2011, 83, .	3.2	12
29	Spinâ€"orbit torque nano-oscillator with giant magnetoresistance readout. Communications Physics, 2020, 3, .	5.3	12
30	Spin dependent transport in ferromagnet/superconductor/ferromagnet single electron transistor. Journal of Applied Physics, 2005, 97, 10A708.	2.5	11
31	Chemical Sensing with ZnO Nanowire. , 0, , .		3
32	Chemical sensing with ZnO nanowire. , 0, , .		3
33	Metal Oxide Nanowires: Fundamentals and Sensor Applications. , 2013, , 287-319.		2
34	Chemical sensing with ZnO nanowire FETs. , 2005, , .		1
35	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
36	Synthesis of Magnesium Borate (Mg2B2O5) Nanowires by Chemical Vapor Deposition Method.. ChemInform, 2004, 35, no.	0.0	0

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37	Electrical Properties of Boron Nanowires. ACS Symposium Series, 2005, , 362-375.	0.5	0
38	Polarized superconductors in nanostructures. Journal of Applied Physics, 2006, 99, 054314.	2.5	0
39	Reply to â€œComment on â€˜Frustrated magnetization in Co nanowires: Competition between crystal anisotropy and demagnetization energyâ€™â€‰â€: Physical Review B, 2010, 82, .	3.2	0
40	Quantum theory of spin alignment in a circular magnetic nanotube. European Physical Journal B, 2015, 88, 1.	1.5	0