

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63 papers	11,332 citations	42 h-index	68 g-index
68 ext. papers	12,058 ext. citations	11.1 avg, IF	5.97 L-index

#	Paper	IF	Citations
63	Epitaxial core-shell and core-multishell nanowire heterostructures. <i>Nature</i> , <b>2002</b> , 420, 57-61	50.4	1802
62	High Performance Silicon Nanowire Field Effect Transistors. <i>Nano Letters</i> , <b>2003</b> , 3, 149-152	11.5	1791
61	Gallium Nitride-Based Nanowire Radial Heterostructures for Nanophotonics. <i>Nano Letters</i> , <b>2004</b> , 4, 1975-1979	11.5	566
60	Nanowire crossbar arrays as address decoders for integrated nanosystems. <i>Science</i> , <b>2003</b> , 302, 1377-9	33.3	527
59	Novel Electroluminescent Conjugated Polyelectrolytes Based on Polyfluorene. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 708-716	9.6	509
58	Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices. <i>Nano Letters</i> , <b>2003</b> , 3, 343-346	11.5	424
57	Rational synthesis of p-type zinc oxide nanowire arrays using simple chemical vapor deposition. <i>Nano Letters</i> , <b>2007</b> , 7, 323-8	11.5	405
56	Rational Growth of Branched and Hyperbranched Nanowire Structures. <i>Nano Letters</i> , <b>2004</b> , 4, 871-874	11.5	365
55	Nanowire photodetectors. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 1430-49	1.3	304
54	Enabling silicon for solar-fuel production. <i>Chemical Reviews</i> , <b>2014</b> , 114, 8662-719	68.1	274
53	High electron mobility InAs nanowire field-effect transistors. <i>Small</i> , <b>2007</b> , 3, 326-32	11	268
52	Biosensors from conjugated polyelectrolyte complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 49-53	11.5	263
51	Direct heteroepitaxy of vertical InAs nanowires on Si substrates for broad band photovoltaics and photodetection. <i>Nano Letters</i> , <b>2009</b> , 9, 2926-34	11.5	261
50	ZnO/CuO heterojunction branched nanowires for photoelectrochemical hydrogen generation. <i>ACS Nano</i> , <b>2013</b> , 7, 11112-20	16.7	239
49	Photoluminescence of Water-Soluble Conjugated Polymers: Origin of Enhanced Quenching by Charge Transfer. <i>Macromolecules</i> , <b>2000</b> , 33, 5153-5158	5.5	219
48	III-V nanowire growth mechanism: V/III ratio and temperature effects. <i>Nano Letters</i> , <b>2007</b> , 7, 2486-90	11.5	156
47	Nickel oxide functionalized silicon for efficient photo-oxidation of water. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7872	35.4	154

46	Precise semiconductor nanowire placement through dielectrophoresis. <i>Nano Letters</i> , <b>2009</b> , 9, 2260-6	11.5	154
45	3D branched nanowire heterojunction photoelectrodes for high-efficiency solar water splitting and H <sub>2</sub> generation. <i>Nanoscale</i> , <b>2012</b> , 4, 1515-21	7.7	149
44	Tailoring n-ZnO/p-Si branched nanowire heterostructures for selective photoelectrochemical water oxidation or reduction. <i>Nano Letters</i> , <b>2013</b> , 13, 3017-22	11.5	133
43	Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2464-2472	13.1	129
42	3D Branched nanowire photoelectrochemical electrodes for efficient solar water splitting. <i>ACS Nano</i> , <b>2013</b> , 7, 9407-15	16.7	121
41	Photoluminescence Quenching of Conjugated Macromolecules by Bipyridinium Derivatives in Aqueous Media: Charge Dependence. <i>Langmuir</i> , <b>2001</b> , 17, 1262-1266	4	113
40	Solution synthesis of large-scale, high-sensitivity ZnO/Si hierarchical nanoheterostructure photodetectors. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15465-7	16.4	109
39	Influence of surface states on the extraction of transport parameters from InAs nanowire field effect transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 162112	3.4	101
38	High efficiency NiO/ZnO heterojunction UV photodiode by sol-gel processing. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7333	7.1	95
37	Heteroepitaxial growth of vertical GaAs nanowires on Si(111) substrates by metal-organic chemical vapor deposition. <i>Nano Letters</i> , <b>2008</b> , 8, 3755-60	11.5	89
36	Branched TiO <sub>2</sub> /Si nanostructures for enhanced photoelectrochemical water splitting. <i>Nano Energy</i> , <b>2013</b> , 2, 351-360	17.1	88
35	Metal oxide composite enabled nanotextured Si photoanode for efficient solar driven water oxidation. <i>Nano Letters</i> , <b>2013</b> , 13, 2064-72	11.5	85
34	Silicon nanowire detectors showing phototransistive gain. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 121110	3.4	83
33	Structural and Room-Temperature Transport Properties of Zinc Blende and Wurtzite InAs Nanowires. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2102-2108	15.6	82
32	High-Performance a-Si/c-Si Heterojunction Photoelectrodes for Photoelectrochemical Oxygen and Hydrogen Evolution. <i>Nano Letters</i> , <b>2015</b> , 15, 2817-24	11.5	74
31	Surface diffusion and substrate-nanowire adatom exchange in InAs nanowire growth. <i>Nano Letters</i> , <b>2009</b> , 9, 1967-72	11.5	70
30	Synthesis and properties of a novel water-soluble anionic polyfluorenes for highly sensitive biosensors. <i>Polymer</i> , <b>2005</b> , 46, 12010-12015	3.9	68
29	A systematic study on the growth of GaAs nanowires by metal-organic chemical vapor deposition. <i>Nano Letters</i> , <b>2008</b> , 8, 4275-82	11.5	67

28	Transport properties of InAs nanowire field effect transistors: The effects of surface states. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 1432		67
27	Transport coefficients of InAs nanowires as a function of diameter. <i>Small</i> , <b>2009</b> , 5, 77-81	11	60
26	Advances in the synthesis of InAs and GaAs nanowires for electronic applications. <i>Nano Today</i> , <b>2009</b> , 4, 347-358	17.9	53
25	Si photoanode protected by a metal modified ITO layer with ultrathin NiO(x) for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 4612-25	3.6	51
24	p-Si/SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Core/Shell/Shell Nanowire Photocathodes for Neutral pH Water Splitting. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2609-2615	15.6	44
23	Zinc Oxide Nanowire As an Electron-Extraction Layer for Broadband Polymer Photodetectors with an Inverted Device Structure. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 13650-13653	3.8	43
22	Crystalline ZnO thin film by hydrothermal growth. <i>Chemical Communications</i> , <b>2011</b> , 47, 7776-8	5.8	42
21	Compound Semiconductor Nanowire Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 1033-1049	3.8	39
20	Catalyst-Free Heteroepitaxial MOCVD Growth of InAs Nanowires on Si Substrates. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1696-1705	3.8	37
19	A numerical Schrödinger-Poisson solver for radially symmetric nanowire core-shell structures. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 1732-1739	1.7	37
18	Growth of InAs Nanowires on SiO <sub>2</sub> Substrates: Nucleation, Evolution, and the Role of Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13331-13336	3.8	35
17	Dynamic quenching of 5-(2-ethyl-hexyloxy)-p-phenylene vinylene (MEH-PPV) by charge transfer to a C60 derivative in solution. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 2553-2557	2.9	35
16	Field dependent transport properties in InAs nanowire field effect transistors. <i>Nano Letters</i> , <b>2008</b> , 8, 3114-9	11.5	30
15	Excess indium and substrate effects on the growth of InAs nanowires. <i>Small</i> , <b>2007</b> , 3, 1683-7	11	30
14	Metal on metal oxide nanowire Co-catalyzed Si photocathode for solar water splitting. <i>Nanotechnology</i> , <b>2012</b> , 23, 194013	3.4	29
13	Small angle neutron scattering (SANS) studies of a conjugated polyelectrolyte in aqueous solution. <i>Chemical Physics Letters</i> , <b>2001</b> , 348, 411-415	2.5	28
12	High-Quality, Ultraconformal Aluminum-Doped Zinc Oxide Nanoplasmonic and Hyperbolic Metamaterials. <i>Small</i> , <b>2016</b> , 12, 892-901	11	28
11	Nanowire/nanotube array tandem cells for overall solar neutral water splitting. <i>Nano Energy</i> , <b>2016</b> , 19, 289-296	17.1	26

10	CONFORMATION OF A CONJUGATED POLYELECTROLYTE IN AQUEOUS SOLUTION: SMALL ANGLE NEUTRON SCATTERING. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2001</b> , 38, 1175-1189	2.2	26
9	NiO(x)-Fe <sub>2</sub> O <sub>3</sub> -coated p-Si photocathodes for enhanced solar water splitting in neutral pH water. <i>Nanoscale</i> , <b>2015</b> , 7, 4900-5	7.7	16
8	Plasmonic tuning of aluminum doped zinc oxide nanostructures by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 948-952	2.5	16
7	Scalability simulations for nanomemory systems integrated on the molecular scale. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 1006, 312-30	6.5	16
6	Integration of vertical InAs nanowire arrays on insulator-on-silicon for electrical isolation. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 203109	3.4	15
5	Three-dimensional ZnO/Si broom-like nanowire heterostructures as photoelectrochemical anodes for solar energy conversion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 2561-2568	1.6	8
4	Ultra-high photosensitivity silicon nanophotonics for retinal prosthesis: electrical characteristics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 2933-6	0.9	7
3	Planar and vertical Si nanowire photodetectors <b>2008</b> ,		2
2	In-situ TEM Observation of Electrochemical Cycling of a Si/TiO <sub>2</sub> Composite NW. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 454-455	0.5	
1	3D Branched Nanowire Photoelectrodes for High Efficiency Solar Water Splitting and Hydrogen Production. <i>Additional Conferences (Device Packaging HiTEC HiTEN &amp; CICMT)</i> , <b>2011</b> , 2011, 000084-000090	0.1	