

Deli Wang

List of Publications by Year in Descending Order

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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.

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|-------------------|--------------------------|-----------------|-----------------|
| 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 | Two-Dimensional Phosphorus-Doped Carbon Nanosheets with Tunable Porosity for Oxygen Reactions in Zinc-Air Batteries. <i>ACS Catalysis</i> , 2018 , 8, 2464-2472 | 13.1 | 129 |
| 62 | Nanowire/nanotube array tandem cells for overall solar neutral water splitting. <i>Nano Energy</i> , 2016 , 19, 289-296 | 17.1 | 26 |
| 61 | High-Quality, Ultraconformal Aluminum-Doped Zinc Oxide Nanoplasmonic and Hyperbolic Metamaterials. <i>Small</i> , 2016 , 12, 892-901 | 11 | 28 |
| 60 | p-Si/SnO ₂ /Fe ₂ O ₃ Core/Shell/Shell Nanowire Photocathodes for Neutral pH Water Splitting. <i>Advanced Functional Materials</i> , 2015 , 25, 2609-2615 | 15.6 | 44 |
| 59 | NiO(x)-Fe ₂ O ₃ -coated p-Si photocathodes for enhanced solar water splitting in neutral pH water. <i>Nanoscale</i> , 2015 , 7, 4900-5 | 7.7 | 16 |
| 58 | High-Performance a-Si/c-Si Heterojunction Photoelectrodes for Photoelectrochemical Oxygen and Hydrogen Evolution. <i>Nano Letters</i> , 2015 , 15, 2817-24 | 11.5 | 74 |
| 57 | Si photoanode protected by a metal modified ITO layer with ultrathin NiO(x) for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4612-25 | 3.6 | 51 |
| 56 | Catalyst-Free Heteroepitaxial MOCVD Growth of InAs Nanowires on Si Substrates. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1696-1705 | 3.8 | 37 |
| 55 | Enabling silicon for solar-fuel production. <i>Chemical Reviews</i> , 2014 , 114, 8662-719 | 68.1 | 274 |
| 54 | In-situ TEM Observation of Electrochemical Cycling of a Si/TiO ₂ Composite NW. <i>Microscopy and Microanalysis</i> , 2014 , 20, 454-455 | 0.5 | |
| 53 | Plasmonic tuning of aluminum doped zinc oxide nanostructures by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 948-952 | 2.5 | 16 |
| 52 | ZnO/CuO heterojunction branched nanowires for photoelectrochemical hydrogen generation. <i>ACS Nano</i> , 2013 , 7, 11112-20 | 16.7 | 239 |
| 51 | High efficiency NiO/ZnO heterojunction UV photodiode by sol-gel processing. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7333 | 7.1 | 95 |
| 50 | 3D Branched nanowire photoelectrochemical electrodes for efficient solar water splitting. <i>ACS Nano</i> , 2013 , 7, 9407-15 | 16.7 | 121 |
| 49 | Metal oxide composite enabled nanotextured Si photoanode for efficient solar driven water oxidation. <i>Nano Letters</i> , 2013 , 13, 2064-72 | 11.5 | 85 |
| 48 | 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> , 2013 , 210, 2561-2568 | 16 | 8 |
| 47 | Branched TiO ₂ /Si nanostructures for enhanced photoelectrochemical water splitting. <i>Nano Energy</i> , 2013 , 2, 351-360 | 17.1 | 88 |

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| 46 | Tailoring n-ZnO/p-Si branched nanowire heterostructures for selective photoelectrochemical water oxidation or reduction. <i>Nano Letters</i> , 2013 , 13, 3017-22 | 11.5 | 133 |
| 45 | Zinc Oxide Nanowire As an Electron-Extraction Layer for Broadband Polymer Photodetectors with an Inverted Device Structure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13650-13653 | 3.8 | 43 |
| 44 | Metal on metal oxide nanowire Co-catalyzed Si photocathode for solar water splitting. <i>Nanotechnology</i> , 2012 , 23, 194013 | 3.4 | 29 |
| 43 | 3D branched nanowire heterojunction photoelectrodes for high-efficiency solar water splitting and H ₂ generation. <i>Nanoscale</i> , 2012 , 4, 1515-21 | 7.7 | 149 |
| 42 | Nickel oxide functionalized silicon for efficient photo-oxidation of water. <i>Energy and Environmental Science</i> , 2012 , 5, 7872 | 35.4 | 154 |
| 41 | Compound Semiconductor Nanowire Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1033-1049 | 3.8 | 39 |
| 40 | Crystalline ZnO thin film by hydrothermal growth. <i>Chemical Communications</i> , 2011 , 47, 7776-8 | 5.8 | 42 |
| 39 | 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> , 2011 , 2011, 2933-6 | 0.9 | 7 |
| 38 | 3D Branched Nanowire Photoelectrodes for High Efficiency Solar Water Splitting and Hydrogen Production. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2011 , 2011, 000084-000090 ^{0.1} | | |
| 37 | Nanowire photodetectors. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1430-49 | 1.3 | 304 |
| 36 | Solution synthesis of large-scale, high-sensitivity ZnO/Si hierarchical nanoheterostructure photodetectors. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15465-7 | 16.4 | 109 |
| 35 | Structural and Room-Temperature Transport Properties of Zinc Blende and Wurtzite InAs Nanowires. <i>Advanced Functional Materials</i> , 2009 , 19, 2102-2108 | 15.6 | 82 |
| 34 | Advances in the synthesis of InAs and GaAs nanowires for electronic applications. <i>Nano Today</i> , 2009 , 4, 347-358 | 17.9 | 53 |
| 33 | Transport coefficients of InAs nanowires as a function of diameter. <i>Small</i> , 2009 , 5, 77-81 | 11 | 60 |
| 32 | Precise semiconductor nanowire placement through dielectrophoresis. <i>Nano Letters</i> , 2009 , 9, 2260-6 | 11.5 | 154 |
| 31 | Surface diffusion and substrate-nanowire adatom exchange in InAs nanowire growth. <i>Nano Letters</i> , 2009 , 9, 1967-72 | 11.5 | 70 |
| 30 | Direct heteroepitaxy of vertical InAs nanowires on Si substrates for broad band photovoltaics and photodetection. <i>Nano Letters</i> , 2009 , 9, 2926-34 | 11.5 | 261 |
| 29 | Field dependent transport properties in InAs nanowire field effect transistors. <i>Nano Letters</i> , 2008 , 8, 3114-9 | 11.5 | 30 |

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|----|---|------|-----|
| 28 | Integration of vertical InAs nanowire arrays on insulator-on-silicon for electrical isolation. <i>Applied Physics Letters</i> , 2008 , 93, 203109 | 3.4 | 15 |
| 27 | A systematic study on the growth of GaAs nanowires by metal-organic chemical vapor deposition. <i>Nano Letters</i> , 2008 , 8, 4275-82 | 11.5 | 67 |
| 26 | Heteroepitaxial growth of vertical GaAs nanowires on Si(111) substrates by metal-organic chemical vapor deposition. <i>Nano Letters</i> , 2008 , 8, 3755-60 | 11.5 | 89 |
| 25 | Silicon nanowire detectors showing phototransistive gain. <i>Applied Physics Letters</i> , 2008 , 93, 121110 | 3.4 | 83 |
| 24 | Planar and vertical Si nanowire photodetectors 2008 , | | 2 |
| 23 | Growth of InAs Nanowires on SiO ₂ Substrates: Nucleation, Evolution, and the Role of Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13331-13336 | 3.8 | 35 |
| 22 | Rational synthesis of p-type zinc oxide nanowire arrays using simple chemical vapor deposition. <i>Nano Letters</i> , 2007 , 7, 323-8 | 11.5 | 405 |
| 21 | III-V nanowire growth mechanism: V/III ratio and temperature effects. <i>Nano Letters</i> , 2007 , 7, 2486-90 | 11.5 | 156 |
| 20 | High electron mobility InAs nanowire field-effect transistors. <i>Small</i> , 2007 , 3, 326-32 | 11 | 268 |
| 19 | Excess indium and substrate effects on the growth of InAs nanowires. <i>Small</i> , 2007 , 3, 1683-7 | 11 | 30 |
| 18 | Transport properties of InAs nanowire field effect transistors: The effects of surface states. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1432 | | 67 |
| 17 | Influence of surface states on the extraction of transport parameters from InAs nanowire field effect transistors. <i>Applied Physics Letters</i> , 2007 , 90, 162112 | 3.4 | 101 |
| 16 | A numerical Schrödinger-Poisson solver for radially symmetric nanowire core-shell structures. <i>Solid-State Electronics</i> , 2006 , 50, 1732-1739 | 1.7 | 37 |
| 15 | Synthesis and properties of a novel water-soluble anionic polyfluorenes for highly sensitive biosensors. <i>Polymer</i> , 2005 , 46, 12010-12015 | 3.9 | 68 |
| 14 | Rational Growth of Branched and Hyperbranched Nanowire Structures. <i>Nano Letters</i> , 2004 , 4, 871-874 | 11.5 | 365 |
| 13 | Gallium Nitride-Based Nanowire Radial Heterostructures for Nanophotonics. <i>Nano Letters</i> , 2004 , 4, 1975-1979 | 11.5 | 566 |
| 12 | Novel Electroluminescent Conjugated Polyelectrolytes Based on Polyfluorene. <i>Chemistry of Materials</i> , 2004 , 16, 708-716 | 9.6 | 509 |
| 11 | Scalability simulations for nanomemory systems integrated on the molecular scale. <i>Annals of the New York Academy of Sciences</i> , 2003 , 1006, 312-30 | 6.5 | 16 |

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|----|---|------|------|
| 10 | High Performance Silicon Nanowire Field Effect Transistors. <i>Nano Letters</i> , 2003 , 3, 149-152 | 11.5 | 1791 |
| 9 | Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices. <i>Nano Letters</i> , 2003 , 3, 343-346 | 11.5 | 424 |
| 8 | Nanowire crossbar arrays as address decoders for integrated nanosystems. <i>Science</i> , 2003 , 302, 1377-9 | 33.3 | 527 |
| 7 | Epitaxial core-shell and core-multishell nanowire heterostructures. <i>Nature</i> , 2002 , 420, 57-61 | 50.4 | 1802 |
| 6 | Biosensors from conjugated polyelectrolyte complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 49-53 | 11.5 | 263 |
| 5 | 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> , 2001 , 82, 2553-2557 | 2.9 | 35 |
| 4 | Small angle neutron scattering (SANS) studies of a conjugated polyelectrolyte in aqueous solution. <i>Chemical Physics Letters</i> , 2001 , 348, 411-415 | 2.5 | 28 |
| 3 | CONFORMATION OF A CONJUGATED POLYELECTROLYTE IN AQUEOUS SOLUTION: SMALL ANGLE NEUTRON SCATTERING. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2001 , 38, 1175-1189 | 2.2 | 26 |
| 2 | Photoluminescence Quenching of Conjugated Macromolecules by Bipyridinium Derivatives in Aqueous Media: Charge Dependence. <i>Langmuir</i> , 2001 , 17, 1262-1266 | 4 | 113 |
| 1 | Photoluminescence of Water-Soluble Conjugated Polymers: Origin of Enhanced Quenching by Charge Transfer. <i>Macromolecules</i> , 2000 , 33, 5153-5158 | 5.5 | 219 |