

Kwanyong Seo

List of Publications by Year in descending order

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87
papers

4,158
citations

101543

36
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114465

63
g-index

89
all docs

89
docs citations

89
times ranked

6237
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Chromatic Plasmonic Polarizers for Active Visible Color Filtering and Polarimetry. <i>Nano Letters</i> , 2012, 12, 1026-1031. | 9.1 | 357 |
| 2 | Multicolored Vertical Silicon Nanowires. <i>Nano Letters</i> , 2011, 11, 1851-1856. | 9.1 | 350 |
| 3 | Dramatic Reduction of Surface Recombination by in Situ Surface Passivation of Silicon Nanowires. <i>Nano Letters</i> , 2011, 11, 2527-2532. | 9.1 | 230 |
| 4 | Filter-Free Image Sensor Pixels Comprising Silicon Nanowires with Selective Color Absorption. <i>Nano Letters</i> , 2014, 14, 1804-1809. | 9.1 | 203 |
| 5 | Magnetic Properties of Single-Crystalline CoSi Nanowires. <i>Nano Letters</i> , 2007, 7, 1240-1245. | 9.1 | 132 |
| 6 | Simple Vapor-Phase Synthesis of Single-Crystalline Ag Nanowires and Single-Nanowire Surface-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2007, 129, 9576-9577. | 13.7 | 131 |
| 7 | Monolithically integrated, photo-rechargeable portable power sources based on miniaturized Si solar cells and printed solid-state lithium-ion batteries. <i>Energy and Environmental Science</i> , 2017, 10, 931-940. | 30.8 | 111 |
| 8 | Cold Isostatic-Pressured Silver Nanowire Electrodes for Flexible Organic Solar Cells via Room-Temperature Processes. <i>Advanced Materials</i> , 2017, 29, 1701479. | 21.0 | 111 |
| 9 | Selective Removal of Metallic Single-Walled Carbon Nanotubes with Small Diameters by Using Nitric and Sulfuric Acids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19242-19248. | 2.6 | 109 |
| 10 | Experimental and theoretical studies on the structure of N-doped carbon nanotubes: Possibility of intercalated molecular N ₂ . <i>Applied Physics Letters</i> , 2004, 85, 5742-5744. | 3.3 | 106 |
| 11 | Dopant-Free All-Back-Contact Si Nanohole Solar Cells Using MoO ₃ and LiF Films. <i>Nano Letters</i> , 2016, 16, 981-987. | 9.1 | 94 |
| 12 | Steering Epitaxial Alignment of Au, Pd, and AuPd Nanowire Arrays by Atom Flux Change. <i>Nano Letters</i> , 2010, 10, 432-438. | 9.1 | 93 |
| 13 | Chirality- and Diameter-Dependent Reactivity of NO ₂ on Carbon Nanotube Walls. <i>Journal of the American Chemical Society</i> , 2005, 127, 15724-15729. | 13.7 | 91 |
| 14 | N-doped double-walled carbon nanotubes synthesized by chemical vapor deposition. <i>Chemical Physics Letters</i> , 2005, 413, 300-305. | 2.6 | 90 |
| 15 | Jabuticaba-Inspired Hybrid Carbon Filler/Polymer Electrode for Use in Highly Stretchable Aqueous Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702478. | 19.5 | 82 |
| 16 | Versatile control of metal-assisted chemical etching for vertical silicon microwire arrays and their photovoltaic applications. <i>Scientific Reports</i> , 2015, 5, 11277. | 3.3 | 76 |
| 17 | Phase-Controlled Growth of Metastable Fe ₅ Si ₃ Nanowires by a Vapor Transport Method. <i>Journal of the American Chemical Society</i> , 2007, 129, 8594-8599. | 13.7 | 72 |
| 18 | Polarized Raman Confocal Microscopy of Single Gallium Nitride Nanowires. <i>Journal of the American Chemical Society</i> , 2005, 127, 17146-17147. | 13.7 | 70 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Reconfigurable Imaging Systems Using Elliptical Nanowires. <i>Nano Letters</i> , 2011, 11, 4299-4303. | 9.1 | 68 |
| 20 | Adsorption of Atomic Hydrogen on Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8967-8972. | 2.6 | 67 |
| 21 | The Development of Transparent Photovoltaics. <i>Cell Reports Physical Science</i> , 2020, 1, 100143. | 5.6 | 67 |
| 22 | Synthesis and Electrical Properties of Single Crystalline CrSi ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9072-9076. | 3.1 | 61 |
| 23 | Polymorph-Tuned Synthesis of In ₂ O ₃ Nanowires and Determination of Their Growth Direction from Polarized Raman Single Nanowire Microscopy. <i>Chemistry - A European Journal</i> , 2011, 17, 1304-1309. | 3.3 | 60 |
| 24 | Enhancement of Light Absorption in Photovoltaic Devices using Textured Polydimethylsiloxane Stickers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21276-21282. | 8.0 | 60 |
| 25 | A high-performance nanoporous Si/Al ₂ O ₃ foam lithium-ion battery anode fabricated by selective chemical etching of the Al-Si alloy and subsequent thermal oxidation. <i>Chemical Communications</i> , 2015, 51, 4429-4432. | 4.1 | 58 |
| 26 | Embedded Metal Electrode for Organic-Inorganic Hybrid Nanowire Solar Cells. <i>ACS Nano</i> , 2017, 11, 6218-6224. | 14.6 | 57 |
| 27 | Neutral-Colored Transparent Crystalline Silicon Photovoltaics. <i>Joule</i> , 2020, 4, 235-246. | 24.0 | 55 |
| 28 | Creating Well-Defined Hot Spots for Surface-Enhanced Raman Scattering by Single-Crystalline Noble Metal Nanowire Pairs. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7492-7496. | 3.1 | 54 |
| 29 | Flexible crystalline silicon radial junction photovoltaics with vertically aligned tapered microwires. <i>Energy and Environmental Science</i> , 2018, 11, 641-647. | 30.8 | 49 |
| 30 | Composition-Tuned ConSi Nanowires: Location-Selective Simultaneous Growth along Temperature Gradient. <i>ACS Nano</i> , 2009, 3, 1145-1150. | 14.6 | 48 |
| 31 | Adding colors to polydimethylsiloxane by embedding vertical silicon nanowires. <i>Applied Physics Letters</i> , 2012, 101, 193107. | 3.3 | 44 |
| 32 | Si Microwire Solar Cells: Improved Efficiency with a Conformal SiO ₂ Layer. <i>ACS Nano</i> , 2013, 7, 5539-5545. | 14.6 | 42 |
| 33 | Diffusion-Driven Crystal Structure Transformation: Synthesis of Heusler Alloy Fe ₃ Si Nanowires. <i>Nano Letters</i> , 2010, 10, 3643-3647. | 9.1 | 40 |
| 34 | Vertical Epitaxial Co ₅ Ge ₇ Nanowire and Nanobelt Arrays on a Thin Graphitic Layer for Flexible Field Emission Displays. <i>Advanced Materials</i> , 2009, 21, 4979-4982. | 21.0 | 39 |
| 35 | Itinerant Helimagnetic Single-Crystalline MnSi Nanowires. <i>ACS Nano</i> , 2010, 4, 2569-2576. | 14.6 | 39 |
| 36 | 17.6%-Efficient radial junction solar cells using silicon nano/micro hybrid structures. <i>Nanoscale</i> , 2016, 8, 14473-14479. | 5.6 | 37 |

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|----|--|------|-----------|
| 37 | Room Temperature Ferromagnetism in Single-Crystalline Fe ₅ Si ₃ Nanowires. Journal of Physical Chemistry C, 2009, 113, 6902-6905. | 3.1 | 36 |
| 38 | Low-temperature solution-processed flexible organic solar cells with PFN/AgNWs cathode. Nano Energy, 2015, 16, 122-129. | 16.0 | 36 |
| 39 | Tip-functionalized carbon nanotubes under electric fields. Physical Review B, 2003, 68, . | 3.2 | 35 |
| 40 | 18.4%-Efficient Heterojunction Si Solar Cells Using Optimized ITO/Top Electrode. ACS Applied Materials & Interfaces, 2016, 8, 11412-11417. | 8.0 | 35 |
| 41 | Single-Crystalline Ferromagnetic Fe _{1-x} CoxSi Nanowires. Journal of Physical Chemistry C, 2008, 112, 4748-4752. | 3.1 | 31 |
| 42 | Conductive and Porous Silicon Nanowire Anodes for Lithium Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A1564-A1568. | 2.9 | 30 |
| 43 | Conformational Study of Tyramine and Its Water Clusters by Laser Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 1800-1807. | 2.5 | 29 |
| 44 | Microgrid Electrode for Si Microwire Solar Cells with a Fill Factor of Over 80%. Advanced Materials Interfaces, 2015, 2, 1500347. | 3.7 | 26 |
| 45 | Effective Photon Management of Non-Surface-Textured Flexible Thin Crystalline Silicon Solar Cells. Cell Reports Physical Science, 2020, 1, 100242. | 5.6 | 25 |
| 46 | Superconducting Junction of a Single-Crystalline Au Nanowire for an Ideal Josephson Device. ACS Nano, 2011, 5, 2271-2276. | 14.6 | 24 |
| 47 | In Situ TEM Observation of Heterogeneous Phase Transition of a Constrained Single-Crystalline Ag ₂ Te Nanowire. Nano Letters, 2010, 10, 4501-4504. | 9.1 | 23 |
| 48 | Structure-Induced Ferromagnetic Stabilization in Free-Standing Hexagonal Fe _{1.3} Ge Nanowires. Journal of the American Chemical Society, 2010, 132, 17447-17451. | 13.7 | 23 |
| 49 | Aluminum Foil Mediated Noncatalytic Growth of ZnO Nanowire Arrays on an Indium Tin Oxide Substrate. Journal of Physical Chemistry C, 2008, 112, 9181-9185. | 3.1 | 21 |
| 50 | Tuning Chirality of Single-Wall Carbon Nanotubes by Selective Etching with Carbon Dioxide. Journal of the American Chemical Society, 2003, 125, 13946-13947. | 13.7 | 18 |
| 51 | Frequency comb transferred by surface plasmon resonance. Nature Communications, 2016, 7, 10685. | 12.8 | 18 |
| 52 | Customized Energy Down-Shift Using Iridium Complexes for Enhanced Performance of Polymer Solar Cells. ACS Energy Letters, 2016, 1, 991-999. | 17.4 | 18 |
| 53 | Progress in silicon microwire solar cells. Journal of Materials Chemistry A, 2020, 8, 5395-5420. | 10.3 | 18 |
| 54 | Morphology-Tuned Synthesis of Single-Crystalline V ₅ Si ₃ Nanotubes and Nanowires. Journal of Physical Chemistry C, 2009, 113, 12996-13001. | 3.1 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Epitaxially Integrating Ferromagnetic Fe _{1.3} Ge Nanowire Arrays on Few-Layer Graphene. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 956-960. | 4.6 | 17 |
| 56 | Vertically Aligned Single-Crystalline Ferromagnetic Ni ₃ Co Nanowires. <i>Chemistry of Materials</i> , 2010, 22, 1831-1835. | 6.7 | 16 |
| 57 | Seawater-Mediated Solar-to-Sodium Conversion by Bismuth Vanadate Photoanode- Photovoltaic Tandem Cell: Solar Rechargeable Seawater Battery. <i>IScience</i> , 2019, 19, 232-243. | 4.1 | 16 |
| 58 | ITO-free carrier-selective contact for crystalline silicon solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2192-2199. | 10.3 | 16 |
| 59 | Silicon Microwire Arrays with Nanoscale Spacing for Radial Junction c-Si Solar Cells with an Efficiency of 20.5%. <i>ACS Nano</i> , 2021, 15, 14756-14765. | 14.6 | 15 |
| 60 | Electronic transport mechanism and photocurrent generations of single-crystalline InN nanowires. <i>Nanotechnology</i> , 2008, 19, 415202. | 2.6 | 13 |
| 61 | High-performance electrothermal and anticorrosive transparent heating stickers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11790-11796. | 10.3 | 13 |
| 62 | Nonaqueous arylated quinone catholytes for lithium-organic flow batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14761-14768. | 10.3 | 13 |
| 63 | Phosphorescent Energy Downshifting for Diminishing Surface Recombination in Silicon Nanowire Solar Cells. <i>Scientific Reports</i> , 2018, 8, 16974. | 3.3 | 12 |
| 64 | Sunlight-Activatable ROS Generator for Cell Death Using TiO ₂ /c-Si Microwires. <i>Nano Letters</i> , 2021, 21, 6998-7004. | 9.1 | 12 |
| 65 | Flexible Crystalline-Silicon Photovoltaics: Light Management with Surface Structures. <i>Accounts of Materials Research</i> , 2021, 2, 701-713. | 11.7 | 12 |
| 66 | A diameter-dependent separation of semiconducting from metallic single-wall carbon nanotubes by using nitronium ions. <i>Current Applied Physics</i> , 2006, 6, e99-e109. | 2.4 | 11 |
| 67 | Stability and Efficiency Enhancement of Perovskite Solar Cells Using Phenyltriethylammonium Iodide. <i>Advanced Materials Interfaces</i> , 0, , 2200464. | 3.7 | 11 |
| 68 | Growth Energetics of Single-Wall Carbon Nanotubes with Carbon Monoxide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4308-4313. | 2.6 | 10 |
| 69 | Controlling the Light Absorption in a Photodetector Via Nanowire Waveguide Resonances for Multispectral and Color Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-12. | 2.9 | 10 |
| 70 | Field-Induced Radial Junction for Dopant-Free Crystalline Silicon Microwire Solar Cells with an Efficiency of Over 20%. <i>Advanced Energy Materials</i> , 2021, 11, 2003707. | 19.5 | 7 |
| 71 | Truncated Tetrahedron Seed Crystals Initiating Stereoaligned Growth of FeSi Nanowires. <i>ACS Nano</i> , 2012, 6, 8652-8657. | 14.6 | 6 |
| 72 | Direct Fabrication of Flexible Ni Microgrid Transparent Conducting Electrodes via Electroplated Metal Transfer. <i>Advanced Materials Technologies</i> , 2018, 3, 1700213. | 5.8 | 6 |

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|----|---|------|-----------|
| 73 | Fabrication of Water-Repellent Platinum(II) Complex-Based Photon Downshifting Layers for Perovskite Solar Cells by Ultrasonic Spray Deposition. <i>Advanced Energy Materials</i> , 2020, 10, 2001238. | 19.5 | 5 |
| 74 | 25-cm ² glass-like transparent crystalline silicon solar cells with an efficiency of 14.5%. <i>Cell Reports Physical Science</i> , 2022, 3, 100715. | 5.6 | 5 |
| 75 | Solvent-Additive Coordination Effect on Lead-Iodide Precursor for Enlarging Grain Size of Perovskite Film. <i>ACS Applied Energy Materials</i> , 2022, 5, 27-34. | 5.1 | 4 |
| 76 | Vertical Silicon Nanowire Photodetectors: Spectral Sensitivity via Nanowire Radius. , 2013, , . | | 3 |
| 77 | Magnetotransport Properties and Kondo Effect Observed in a Ferromagnetic Single-Crystalline Fe ₅ Co ₇ Si Nanowire. <i>Chemistry - an Asian Journal</i> , 2012, 7, 406-411. | 3.3 | 2 |
| 78 | Voltage-tunable portable power supplies based on tailored integration of modularized silicon photovoltaics and printed bipolar lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16291-16301. | 10.3 | 2 |
| 79 | Synthesis and Applications of Noble Metal and Metal Silicide and Germanide 1-Dimensional Nanostructures. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2830-2844. | 1.9 | 2 |
| 80 | Two GPSes in a Ball: Deciphering the Endosomal Tug-of-War Using Plasmonic Dark-Field STORM. <i>Jacs Au</i> , 0, , . | 7.9 | 2 |
| 81 | Growth Uniformity of Epitaxy Silicon Grown at 200 Å°C Using 60 MHz Very High Frequency Plasma Enhanced Vapor Phase Epitaxy. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8534-8538. | 0.9 | 1 |
| 82 | Vertical epitaxial Co ₅ Ge ₇ nanowires and nanobelts arrays on a thin graphitic layer for flexible FED. , 2010, , . | | 0 |
| 83 | Strongly enhanced minority lifetimes in single silicon nanowires by surface passivation. , 2011, , . | | 0 |
| 84 | Elliptical Nanowire Bifocal Lenses. , 2012, , . | | 0 |
| 85 | Polymer-Embedded Arrays of Vertical Silicon Nanowires as Color Filters. , 2012, , . | | 0 |
| 86 | Metal Silicide and Germanide 1D Nanostructures. , 2012, , 237-278. | | 0 |
| 87 | Monolithic Solar Seawater Battery: Seawater-Mediated Solar-to-Sodium Conversion with 8.0 % Efficiency by Bismuth Vanadate Photoanode - Photovoltaic Tandem Cell. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |