

# Kwanyong Seo

## List of Publications by Year in descending order

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87  
papers

4,158  
citations

101543

36  
h-index

114465

63  
g-index

89  
all docs

89  
docs citations

89  
times ranked

6237  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	25-cm <sup>2</sup> 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
3	Sunlight-Activatable ROS Generator for Cell Death Using TiO <sub>2</sub> -Si Microwires. <i>Nano Letters</i> , 2021, 21, 6998-7004.	9.1	12
4	Flexible Crystalline-Silicon Photovoltaics: Light Management with Surface Structures. <i>Accounts of Materials Research</i> , 2021, 2, 701-713.	11.7	12
5	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
6	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
7	Neutral-Colored Transparent Crystalline Silicon Photovoltaics. <i>Joule</i> , 2020, 4, 235-246.	24.0	55
8	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
9	The Development of Transparent Photovoltaics. <i>Cell Reports Physical Science</i> , 2020, 1, 100143.	5.6	67
10	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
11	Effective Photon Management of Non-Surface-Textured Flexible Thin Crystalline Silicon Solar Cells. <i>Cell Reports Physical Science</i> , 2020, 1, 100242.	5.6	25
12	Progress in silicon microwire solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5395-5420.	10.3	18
13	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
14	ITO-free carrier-selective contact for crystalline silicon solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2192-2199.	10.3	16
15	Flexible crystalline silicon radial junction photovoltaics with vertically aligned tapered microwires. <i>Energy and Environmental Science</i> , 2018, 11, 641-647.	30.8	49
16	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
17	Direct Fabrication of Flexible Ni Microgrid Transparent Conducting Electrodes via Electroplated Metal Transfer. <i>Advanced Materials Technologies</i> , 2018, 3, 1700213.	5.8	6
18	Phosphorescent Energy Downshifting for Diminishing Surface Recombination in Silicon Nanowire Solar Cells. <i>Scientific Reports</i> , 2018, 8, 16974.	3.3	12

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19	High-performance electrothermal and anticorrosive transparent heating stickers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11790-11796.	10.3	13
20	Nonaqueous arylated quinone catholytes for lithium-organic flow batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14761-14768.	10.3	13
21	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
22	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
23	Embedded Metal Electrode for Organic-Inorganic Hybrid Nanowire Solar Cells. <i>ACS Nano</i> , 2017, 11, 6218-6224.	14.6	57
24	Conductive and Porous Silicon Nanowire Anodes for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1564-A1568.	2.9	30
25	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
26	Enhancement of Light Absorption in Photovoltaic Devices using Textured Polydimethylsiloxane Stickers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21276-21282.	8.0	60
27	Growth Uniformity of Epitaxy Silicon Grown at 200 °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
28	Frequency comb transferred by surface plasmon resonance. <i>Nature Communications</i> , 2016, 7, 10685.	12.8	18
29	18.4%-Efficient Heterojunction Si Solar Cells Using Optimized ITO/Top Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11412-11417.	8.0	35
30	Customized Energy Down-Shift Using Iridium Complexes for Enhanced Performance of Polymer Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 991-999.	17.4	18
31	17.6%-Efficient radial junction solar cells using silicon nano/micro hybrid structures. <i>Nanoscale</i> , 2016, 8, 14473-14479.	5.6	37
32	Dopant-Free All-Back-Contact Si Nanohole Solar Cells Using MoO <sub>3</sub> and LiF Films. <i>Nano Letters</i> , 2016, 16, 981-987.	9.1	94
33	Microgrid Electrode for Si Microwire Solar Cells with a Fill Factor of Over 80%. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500347.	3.7	26
34	A high-performance nanoporous Si/Al <sub>2</sub> O <sub>3</sub> 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
35	Low-temperature solution-processed flexible organic solar cells with PFN/AgNWs cathode. <i>Nano Energy</i> , 2015, 16, 122-129.	16.0	36
36	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

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37	Filter-Free Image Sensor Pixels Comprising Silicon Nanowires with Selective Color Absorption. Nano Letters, 2014, 14, 1804-1809.	9.1	203
38	Si Microwire Solar Cells: Improved Efficiency with a Conformal SiO <sub>2</sub> Layer. ACS Nano, 2013, 7, 5539-5545.	14.6	42
39	Vertical Silicon Nanowire Photodetectors: Spectral Sensitivity via Nanowire Radius. , 2013, , .		3
40	Adding colors to polydimethylsiloxane by embedding vertical silicon nanowires. Applied Physics Letters, 2012, 101, 193107.	3.3	44
41	Elliptical Nanowire Bifocal Lenses. , 2012, , .		0
42	Truncated Tetrahedron Seed Crystals Initiating Stereoaligned Growth of FeSi Nanowires. ACS Nano, 2012, 6, 8652-8657.	14.6	6
43	Chromatic Plasmonic Polarizers for Active Visible Color Filtering and Polarimetry. Nano Letters, 2012, 12, 1026-1031.	9.1	357
44	Magnetotransport Properties and Kondo Effect Observed in a Ferromagnetic Single-Crystalline Fe <sub>1-x</sub> Co <sub>x</sub> Si Nanowire. Chemistry - an Asian Journal, 2012, 7, 406-411.	3.3	2
45	Synthesis and Applications of Noble Metal and Metal Silicide and Germanide 1-Dimensional Nanostructures. Bulletin of the Korean Chemical Society, 2012, 33, 2830-2844.	1.9	2
46	Polymer-Embedded Arrays of Vertical Silicon Nanowires as Color Filters. , 2012, , .		0
47	Metal Silicide and Germanide 1D Nanostructures. , 2012, , 237-278.		0
48	Superconducting Junction of a Single-Crystalline Au Nanowire for an Ideal Josephson Device. ACS Nano, 2011, 5, 2271-2276.	14.6	24
49	Reconfigurable Imaging Systems Using Elliptical Nanowires. Nano Letters, 2011, 11, 4299-4303.	9.1	68
50	Strongly enhanced minority lifetimes in single silicon nanowires by surface passivation. , 2011, , .		0
51	Dramatic Reduction of Surface Recombination by in Situ Surface Passivation of Silicon Nanowires. Nano Letters, 2011, 11, 2527-2532.	9.1	230
52	Epitaxially Integrating Ferromagnetic Fe <sub>1.3</sub> Ge Nanowire Arrays on Few-Layer Graphene. Journal of Physical Chemistry Letters, 2011, 2, 956-960.	4.6	17
53	Multicolored Vertical Silicon Nanowires. Nano Letters, 2011, 11, 1851-1856.	9.1	350
54	Polymorph-Tuned Synthesis of In <sub>2</sub> S <sub>3</sub> and Bi <sub>2</sub> O <sub>3</sub> Nanowires and Determination of Their Growth Direction from Polarized Raman Single Nanowire Microscopy. Chemistry - A European Journal, 2011, 17, 1304-1309.	3.3	60

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55	Steering Epitaxial Alignment of Au, Pd, and AuPd Nanowire Arrays by Atom Flux Change. Nano Letters, 2010, 10, 432-438.	9.1	93
56	In Situ TEM Observation of Heterogeneous Phase Transition of a Constrained Single-Crystalline Ag <sub>2</sub> Te Nanowire. Nano Letters, 2010, 10, 4501-4504.	9.1	23
57	Vertical epitaxial Co <sub>5</sub> Ge <sub>7</sub> nanowires and nanobelts arrays on a thin graphitic layer for flexible FED. , 2010, , .		0
58	Structure-Induced Ferromagnetic Stabilization in Free-Standing Hexagonal Fe <sub>1.3</sub> Ge Nanowires. Journal of the American Chemical Society, 2010, 132, 17447-17451.	13.7	23
59	Vertically Aligned Single-Crystalline Ferromagnetic Ni <sub>3</sub> Co Nanowires. Chemistry of Materials, 2010, 22, 1831-1835.	6.7	16
60	Diffusion-Driven Crystal Structure Transformation: Synthesis of Heusler Alloy Fe <sub>3</sub> Si Nanowires. Nano Letters, 2010, 10, 3643-3647.	9.1	40
61	Itinerant Helimagnetic Single-Crystalline MnSi Nanowires. ACS Nano, 2010, 4, 2569-2576.	14.6	39
62	Vertical Epitaxial Co <sub>5</sub> Ge <sub>7</sub> Nanowire and Nanobelt Arrays on a Thin Graphitic Layer for Flexible Field Emission Displays. Advanced Materials, 2009, 21, 4979-4982.	21.0	39
63	Composition-Tuned ConSi Nanowires: Location-Selective Simultaneous Growth along Temperature Gradient. ACS Nano, 2009, 3, 1145-1150.	14.6	48
64	Creating Well-Defined Hot Spots for Surface-Enhanced Raman Scattering by Single-Crystalline Noble Metal Nanowire Pairs. Journal of Physical Chemistry C, 2009, 113, 7492-7496.	3.1	54
65	Morphology-Tuned Synthesis of Single-Crystalline V <sub>5</sub> Si <sub>3</sub> Nanotubes and Nanowires. Journal of Physical Chemistry C, 2009, 113, 12996-13001.	3.1	17
66	Room Temperature Ferromagnetism in Single-Crystalline Fe <sub>5</sub> Si <sub>3</sub> Nanowires. Journal of Physical Chemistry C, 2009, 113, 6902-6905.	3.1	36
67	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
68	Single-Crystalline Ferromagnetic Fe <sub>1-x</sub> Co <sub>x</sub> Si Nanowires. Journal of Physical Chemistry C, 2008, 112, 4748-4752.	3.1	31
69	Electronic transport mechanism and photocurrent generations of single-crystalline InN nanowires. Nanotechnology, 2008, 19, 415202.	2.6	13
70	Synthesis and Electrical Properties of Single Crystalline CrSi <sub>2</sub> Nanowires. Journal of Physical Chemistry C, 2007, 111, 9072-9076.	3.1	61
71	Magnetic Properties of Single-Crystalline CoSi Nanowires. Nano Letters, 2007, 7, 1240-1245.	9.1	132
72	Simple Vapor-Phase Synthesis of Single-Crystalline Ag Nanowires and Single-Nanowire Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2007, 129, 9576-9577.	13.7	131

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73	Phase-Controlled Growth of Metastable Fe <sub>5</sub> Si <sub>3</sub> Nanowires by a Vapor Transport Method. Journal of the American Chemical Society, 2007, 129, 8594-8599.	13.7	72
74	Conformational Study of Tyramine and Its Water Clusters by Laser Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 1800-1807.	2.5	29
75	A diameter-dependent separation of semiconducting from metallic single-wall carbon nanotubes by using nitronium ions. Current Applied Physics, 2006, 6, e99-e109.	2.4	11
76	N-doped double-walled carbon nanotubes synthesized by chemical vapor deposition. Chemical Physics Letters, 2005, 413, 300-305.	2.6	90
77	Adsorption of Atomic Hydrogen on Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 8967-8972.	2.6	67
78	Chirality- and Diameter-Dependent Reactivity of NO <sub>2</sub> on Carbon Nanotube Walls. Journal of the American Chemical Society, 2005, 127, 15724-15729.	13.7	91
79	Polarized Raman Confocal Microscopy of Single Gallium Nitride Nanowires. Journal of the American Chemical Society, 2005, 127, 17146-17147.	13.7	70
80	Selective Removal of Metallic Single-Walled Carbon Nanotubes with Small Diameters by Using Nitric and Sulfuric Acids. Journal of Physical Chemistry B, 2005, 109, 19242-19248.	2.6	109
81	Growth Energetics of Single-Wall Carbon Nanotubes with Carbon Monoxide. Journal of Physical Chemistry B, 2004, 108, 4308-4313.	2.6	10
82	Experimental and theoretical studies on the structure of N-doped carbon nanotubes: Possibility of intercalated molecular N <sub>2</sub> . Applied Physics Letters, 2004, 85, 5742-5744.	3.3	106
83	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
84	Tip-functionalized carbon nanotubes under electric fields. Physical Review B, 2003, 68, .	3.2	35
85	Monolithic Solar Seawater Battery: Seawater-Mediated Solar-to-Sodium Conversion with 8.0 % Efficiency by Bismuth Vanadate Photoanode - Photovoltaic Tandem Cell. SSRN Electronic Journal, 0, , .	0.4	0
86	Stability and Efficiency Enhancement of Perovskite Solar Cells Using Phenyltriethylammonium Iodide. Advanced Materials Interfaces, 0, , 2200464.	3.7	11
87	Two GPSes in a Ball: Deciphering the Endosomal Tug-of-War Using Plasmonic Dark-Field STORM. JACS Au, 0, , .	7.9	2