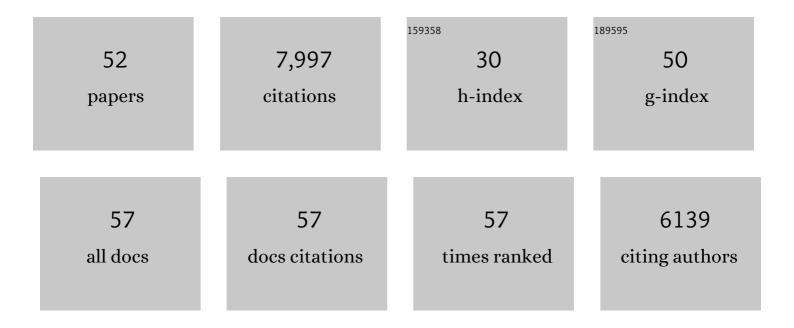
## **Kui-Qing Peng**

List of Publications by Year in descending order

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KILLOING PENG

#	Article	IF	CITATIONS
1	Aligned Single-Crystalline Si Nanowire Arrays for Photovoltaic Applications. Small, 2005, 1, 1062-1067.	5.2	791
2	Synthesis of Large-Area Silicon Nanowire Arrays via Self-Assembling Nanoelectrochemistry. Advanced Materials, 2002, 14, 1164.	11.1	686
3	Fabrication of Single-Crystalline Silicon Nanowires by Scratching a Silicon Surface with Catalytic Metal Particles. Advanced Functional Materials, 2006, 16, 387-394.	7.8	589
4	Silicon Nanowires for Photovoltaic Solar Energy Conversion. Advanced Materials, 2011, 23, 198-215.	11.1	546
5	Preparation of Large-Area Uniform Silicon Nanowires Arrays through Metal-Assisted Chemical Etching. Journal of Physical Chemistry C, 2008, 112, 4444-4450.	1.5	504
6	Uniform, Axial-Orientation Alignment of One-Dimensional Single-Crystal Silicon Nanostructure Arrays. Angewandte Chemie - International Edition, 2005, 44, 2737-2742.	7.2	439
7	Motility of Metal Nanoparticles in Silicon and Induced Anisotropic Silicon Etching. Advanced Functional Materials, 2008, 18, 3026-3035.	7.8	427
8	Silicon nanowires for rechargeable lithium-ion battery anodes. Applied Physics Letters, 2008, 93, .	1.5	372
9	Dendrite-Assisted Growth of Silicon Nanowires in Electroless Metal Deposition. Advanced Functional Materials, 2003, 13, 127-132.	7.8	356
10	High-Performance Silicon Nanohole Solar Cells. Journal of the American Chemical Society, 2010, 132, 6872-6873.	6.6	313
11	Ordered silicon nanowire arrays via nanosphere lithography and metal-induced etching. Applied Physics Letters, 2007, 90, 163123.	1.5	286
12	Metal-Particle-Induced, Highly Localized Site-Specific Etching of Si and Formation of Single-Crystalline Si Nanowires in Aqueous Fluoride Solution. Chemistry - A European Journal, 2006, 12, 7942-7947.	1.7	270
13	Silicon nanowires for advanced energy conversion and storage. Nano Today, 2013, 8, 75-97.	6.2	266
14	Silicon nanowire array photoelectrochemical solar cells. Applied Physics Letters, 2008, 92, .	1.5	255
15	Platinum Nanoparticle Decorated Silicon Nanowires for Efficient Solar Energy Conversion. Nano Letters, 2009, 9, 3704-3709.	4.5	248
16	Fabrication of Large-Area Silicon Nanowire p–n Junction Diode Arrays. Advanced Materials, 2004, 16, 73-76.	11.1	239
17	Surfaceâ€Dominated Transport Properties of Silicon Nanowires. Advanced Functional Materials, 2008, 18, 3251-3257.	7.8	180
18	Silicon/Hematite Core/Shell Nanowire Array Decorated with Gold Nanoparticles for Unbiased Solar Water Oxidation. Nano Letters, 2014, 14, 18-23.	4.5	162

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#	Article	IF	CITATIONS
19	Gas sensing properties of single crystalline porous silicon nanowires. Applied Physics Letters, 2009, 95, .	1.5	145
20	Highâ€Performance Silicon Nanowire Array Photoelectrochemical Solar Cells through Surface Passivation and Modification. Angewandte Chemie - International Edition, 2011, 50, 9861-9865.	7.2	127
21	Morphological selection of electroless metal deposits on silicon in aqueous fluoride solution. Electrochimica Acta, 2004, 49, 2563-2568.	2.6	93
22	Simultaneous gold deposition and formation of silicon nanowire arrays. Journal of Electroanalytical Chemistry, 2003, 558, 35-39.	1.9	86
23	Metalâ€Assisted Chemical Etching of Silicon in Oxidizing HF Solutions: Origin, Mechanism, Development, and Black Silicon Solar Cell Application. Advanced Functional Materials, 2020, 30, 2005744.	7.8	83
24	A surface-enhanced Raman spectroscopy substrate for highly sensitive label-free immunoassay. Applied Physics Letters, 2008, 92, .	1.5	67
25	Fabrication and photovoltaic property of ordered macroporous silicon. Applied Physics Letters, 2009, 95, .	1.5	53
26	Metal-Catalyzed Electroless Etching of Silicon in Aerated HF/H <sub>2</sub> O Vapor for Facile Fabrication of Silicon Nanostructures. Nano Letters, 2014, 14, 4212-4219.	4.5	46
27	Fabrication of Silicon Nanowire Arrays by Macroscopic Galvanic Cellâ€Driven Metal Catalyzed Electroless Etching in Aerated HF Solution. Advanced Materials, 2014, 26, 1410-1413.	11.1	39
28	Continuous-flow Mass Production of Silicon Nanowires via Substrate-Enhanced Metal-Catalyzed Electroless Etching of Silicon with Dissolved Oxygen as an Oxidant. Scientific Reports, 2014, 4, 3667.	1.6	34
29	Oxidant Concentration Modulated Metal/Silicon Interface Electrical Field Mediates Metalâ€Assisted Chemical Etching of Silicon. Advanced Materials Interfaces, 2018, 5, 1801132.	1.9	32
30	Structural Evidence for Actin-like Filaments in Toxoplasma gondii Using High-Resolution Low-Voltage Field Emission Scanning Electron Microscopy. Microscopy and Microanalysis, 2003, 9, 330-335.	0.2	31
31	Metal-organic framework-derived walnut-like hierarchical Co-O-nanosheets as an advanced binder-free electrode material for flexible supercapacitor. Journal of Energy Storage, 2022, 49, 104150.	3.9	31
32	Broadband optical absorption enhancement in silicon nanofunnel arrays for photovoltaic applications. Applied Physics Letters, 2012, 100, .	1.5	29
33	Carbon induced galvanic etching of silicon in aerated HF/H2O vapor. Corrosion Science, 2019, 157, 268-273.	3.0	17
34	Single crystalline ordered silicon wire/Pt nanoparticle hybrids for solar energy harvesting. Electrochemistry Communications, 2010, 12, 509-512.	2.3	16
35	Gold-Sensitized Silicon/ZnO Core/Shell Nanowire Array for Solar Water Splitting. Frontiers in Chemistry, 2019, 7, 206.	1.8	16
36	Controllable Patterning of Hybrid Silicon Nanowire and Nanohole Arrays by Laser Interference Lithography. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000024.	1.2	11

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#	Article	IF	CITATIONS
37	Plasmon enhanced broadband optical absorption in ultrathin silicon nanobowl array for photoactive devices applications. Applied Physics Letters, 2015, 107, .	1.5	10
38	Fabrication of Pt nanowires with a diffraction-unlimited feature size by high-threshold lithography. Applied Physics Letters, 2015, 107, 133104.	1.5	9
39	Light trapping in randomly arranged silicon nanorocket arrays for photovoltaic applications. Nanotechnology, 2015, 26, 375401.	1.3	9
40	Rapid Formation of Uniform Cracks in Metal-Assisted Etched Silicon Nanowire Array Membranes: Implications for Transfer of Nanowires and Flexible Devices. ACS Applied Nano Materials, 2022, 5, 2779-2786.	2.4	8
41	Fabrication and photoelectrochemical properties of silicon/nickel oxide core/shell nanowire arrays. RSC Advances, 2015, 5, 88209-88213.	1.7	7
42	Surface Plasmon Enhanced Light Trapping in Metal/Silicon Nanobowl Arrays for Thin Film Photovoltaics. Journal of Nanomaterials, 2017, 2017, 1-8.	1.5	5
43	Metal Particle Evolution Behavior during Metal Assisted Chemical Etching of Silicon. ECS Journal of Solid State Science and Technology, 2021, 10, 084002.	0.9	5
44	Cell spreading behaviors on hybrid nanopillar and nanohole arrays. Nanotechnology, 2022, 33, 045101.	1.3	4
45	Controlled Fabrication of Wafer-Scale Zigzag Silicon Nanowire Arrays by Metal-Assisted Chemical Etching through Synergistic Effect of Viscosity and Temperature. ECS Journal of Solid State Science and Technology, 2022, 11, 054006.	0.9	4
46	Optical absorption enhancement with low structural-parameter sensitivity in three-dimensional silicon nanocavity array for solar photovoltaics. Japanese Journal of Applied Physics, 2016, 55, 010302.	0.8	1
47	Hole-Mediated Anisotropic Chemical Etching of Crystalline Silicon in HF Solutions: From Pyramidal to Porous Structures. ECS Journal of Solid State Science and Technology, 2019, 8, P277-P284.	0.9	1
48	Silicon surface patterning via galvanic microcontact imprinting lithography. RSC Advances, 2021, 11, 22473-22478.	1.7	1
49	Characterization and Synthesis of Some One-dimensional Heterojunctions. Microscopy and Microanalysis, 2003, 9, 330-331.	0.2	0
50	Size dependence in one-dimensional nano-materials and one-dimensional heterojunctions. Materials Research Society Symposia Proceedings, 2006, 931, 1.	0.1	0
51	Silicon Nanostructures Prepared by Metal-catalyzed Electroless Etching for Solar Energy Conversion. , 2013, , .		0
52	<b>Retraction:</b> Hole-Mediated Anisotropic Chemical Etching of Crystalline Silicon in HF Solutions: From Pyramidal to Porous Structures [ <i>ECS J. Solid State Sci. Technol.,</i> <b>8</b> , P277 (2019)]. ECS Journal of Solid State Science and Technology, 2019, 8, X3-X3.	0.9	0