

Kui-Qing Peng

List of Publications by Year in descending order

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52
papers

7,997
citations

159358

30
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189595

50
g-index

57
all docs

57
docs citations

57
times ranked

6139
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell spreading behaviors on hybrid nanopillar and nanohole arrays. <i>Nanotechnology</i> , 2022, 33, 045101.	1.3	4
2	Rapid Formation of Uniform Cracks in Metal-Assisted Etched Silicon Nanowire Array Membranes: Implications for Transfer of Nanowires and Flexible Devices. <i>ACS Applied Nano Materials</i> , 2022, 5, 2779-2786.	2.4	8
3	Metal-organic framework-derived walnut-like hierarchical Co-O-nanosheets as an advanced binder-free electrode material for flexible supercapacitor. <i>Journal of Energy Storage</i> , 2022, 49, 104150.	3.9	31
4	Controlled Fabrication of Wafer-Scale Zigzag Silicon Nanowire Arrays by Metal-Assisted Chemical Etching through Synergistic Effect of Viscosity and Temperature. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 054006.	0.9	4
5	Silicon surface patterning via galvanic microcontact imprinting lithography. <i>RSC Advances</i> , 2021, 11, 22473-22478.	1.7	1
6	Metal Particle Evolution Behavior during Metal Assisted Chemical Etching of Silicon. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 084002.	0.9	5
7	Metal-Assisted Chemical Etching of Silicon in Oxidizing HF Solutions: Origin, Mechanism, Development, and Black Silicon Solar Cell Application. <i>Advanced Functional Materials</i> , 2020, 30, 2005744.	7.8	83
8	Controllable Patterning of Hybrid Silicon Nanowire and Nanohole Arrays by Laser Interference Lithography. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000024.	1.2	11
9	Carbon induced galvanic etching of silicon in aerated HF/H ₂ O vapor. <i>Corrosion Science</i> , 2019, 157, 268-273.	3.0	17
10	Gold-Sensitized Silicon/ZnO Core/Shell Nanowire Array for Solar Water Splitting. <i>Frontiers in Chemistry</i> , 2019, 7, 206.	1.8	16
11	Retraction: Hole-Mediated Anisotropic Chemical Etching of Crystalline Silicon in HF Solutions: From Pyramidal to Porous Structures [<i>ECS J. Solid State Sci. Technol.</i> , 8 (2019)]. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, X3-X3.	0.9	0
12	Hole-Mediated Anisotropic Chemical Etching of Crystalline Silicon in HF Solutions: From Pyramidal to Porous Structures. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, P277-P284.	0.9	1
13	Oxidant Concentration Modulated Metal/Silicon Interface Electrical Field Mediates Metal-Assisted Chemical Etching of Silicon. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801132.	1.9	32
14	Surface Plasmon Enhanced Light Trapping in Metal/Silicon Nanobowl Arrays for Thin Film Photovoltaics. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-8.	1.5	5
15	Optical absorption enhancement with low structural-parameter sensitivity in three-dimensional silicon nanocavity array for solar photovoltaics. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 010302.	0.8	1
16	Fabrication of Pt nanowires with a diffraction-unlimited feature size by high-threshold lithography. <i>Applied Physics Letters</i> , 2015, 107, 133104.	1.5	9
17	Fabrication and photoelectrochemical properties of silicon/nickel oxide core/shell nanowire arrays. <i>RSC Advances</i> , 2015, 5, 88209-88213.	1.7	7
18	Light trapping in randomly arranged silicon nanorocket arrays for photovoltaic applications. <i>Nanotechnology</i> , 2015, 26, 375401.	1.3	9

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19	Plasmon enhanced broadband optical absorption in ultrathin silicon nanobowl array for photoactive devices applications. Applied Physics Letters, 2015, 107, .	1.5	10
20	Fabrication of Silicon Nanowire Arrays by Macroscopic Galvanic Cell-Driven Metal Catalyzed Electroless Etching in Aerated HF Solution. Advanced Materials, 2014, 26, 1410-1413.	11.1	39
21	Metal-Catalyzed Electroless Etching of Silicon in Aerated HF/H ₂ O Vapor for Facile Fabrication of Silicon Nanostructures. Nano Letters, 2014, 14, 4212-4219.	4.5	46
22	Silicon/Hematite Core/Shell Nanowire Array Decorated with Gold Nanoparticles for Unbiased Solar Water Oxidation. Nano Letters, 2014, 14, 18-23.	4.5	162
23	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
24	Silicon nanowires for advanced energy conversion and storage. Nano Today, 2013, 8, 75-97.	6.2	266
25	Silicon Nanostructures Prepared by Metal-catalyzed Electroless Etching for Solar Energy Conversion. , 2013, , .		0
26	Broadband optical absorption enhancement in silicon nanofunnel arrays for photovoltaic applications. Applied Physics Letters, 2012, 100, .	1.5	29
27	Silicon Nanowires for Photovoltaic Solar Energy Conversion. Advanced Materials, 2011, 23, 198-215.	11.1	546
28	High-Performance Silicon Nanowire Array Photoelectrochemical Solar Cells through Surface Passivation and Modification. Angewandte Chemie - International Edition, 2011, 50, 9861-9865.	7.2	127
29	Single crystalline ordered silicon wire/Pt nanoparticle hybrids for solar energy harvesting. Electrochemistry Communications, 2010, 12, 509-512.	2.3	16
30	High-Performance Silicon Nanohole Solar Cells. Journal of the American Chemical Society, 2010, 132, 6872-6873.	6.6	313
31	Fabrication and photovoltaic property of ordered macroporous silicon. Applied Physics Letters, 2009, 95, .	1.5	53
32	Gas sensing properties of single crystalline porous silicon nanowires. Applied Physics Letters, 2009, 95, .	1.5	145
33	Platinum Nanoparticle Decorated Silicon Nanowires for Efficient Solar Energy Conversion. Nano Letters, 2009, 9, 3704-3709.	4.5	248
34	Motility of Metal Nanoparticles in Silicon and Induced Anisotropic Silicon Etching. Advanced Functional Materials, 2008, 18, 3026-3035.	7.8	427
35	Surface-Dominated Transport Properties of Silicon Nanowires. Advanced Functional Materials, 2008, 18, 3251-3257.	7.8	180
36	A surface-enhanced Raman spectroscopy substrate for highly sensitive label-free immunoassay. Applied Physics Letters, 2008, 92, .	1.5	67

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37	Preparation of Large-Area Uniform Silicon Nanowires Arrays through Metal-Assisted Chemical Etching. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4444-4450.	1.5	504
38	Silicon nanowires for rechargeable lithium-ion battery anodes. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	372
39	Silicon nanowire array photoelectrochemical solar cells. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	255
40	Ordered silicon nanowire arrays via nanosphere lithography and metal-induced etching. <i>Applied Physics Letters</i> , 2007, 90, 163123.	1.5	286
41	Metal-Particle-Induced, Highly Localized Site-Specific Etching of Si and Formation of Single-Crystalline Si Nanowires in Aqueous Fluoride Solution. <i>Chemistry - A European Journal</i> , 2006, 12, 7942-7947.	1.7	270
42	Fabrication of Single-Crystalline Silicon Nanowires by Scratching a Silicon Surface with Catalytic Metal Particles. <i>Advanced Functional Materials</i> , 2006, 16, 387-394.	7.8	589
43	Size dependence in one-dimensional nano-materials and one-dimensional heterojunctions. <i>Materials Research Society Symposia Proceedings</i> , 2006, 931, 1.	0.1	0
44	Uniform, Axial-Orientation Alignment of One-Dimensional Single-Crystal Silicon Nanostructure Arrays. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2737-2742.	7.2	439
45	Aligned Single-Crystalline Si Nanowire Arrays for Photovoltaic Applications. <i>Small</i> , 2005, 1, 1062-1067.	5.2	791
46	Fabrication of Large-Area Silicon Nanowire p-n Junction Diode Arrays. <i>Advanced Materials</i> , 2004, 16, 73-76.	11.1	239
47	Morphological selection of electroless metal deposits on silicon in aqueous fluoride solution. <i>Electrochimica Acta</i> , 2004, 49, 2563-2568.	2.6	93
48	Dendrite-Assisted Growth of Silicon Nanowires in Electroless Metal Deposition. <i>Advanced Functional Materials</i> , 2003, 13, 127-132.	7.8	356
49	Simultaneous gold deposition and formation of silicon nanowire arrays. <i>Journal of Electroanalytical Chemistry</i> , 2003, 558, 35-39.	1.9	86
50	Structural Evidence for Actin-like Filaments in <i>Toxoplasma gondii</i> Using High-Resolution Low-Voltage Field Emission Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2003, 9, 330-335.	0.2	31
51	Characterization and Synthesis of Some One-dimensional Heterojunctions. <i>Microscopy and Microanalysis</i> , 2003, 9, 330-331.	0.2	0
52	Synthesis of Large-Area Silicon Nanowire Arrays via Self-Assembling Nanoelectrochemistry. <i>Advanced Materials</i> , 2002, 14, 1164.	11.1	686