

Bing-Chang Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Q collective Mie resonances in monocrystalline silicon nanoantenna arrays for the visible light. <i>Fundamental Research</i> , 2023, 3, 822-830.	3.3	11
2	Conformal MoS ₂ /Silicon Nanowire Array Heterojunction with Enhanced Light Trapping and Effective Interface Passivation for Ultraweak Infrared Light Detection. <i>Advanced Functional Materials</i> , 2022, 32, 2108174.	14.9	32
3	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching. <i>ACS Omega</i> , 2022, 7, 2234-2243.	3.5	7
4	A perspective on ultralong silicon nanowires for flexible sensors. <i>Applied Physics Letters</i> , 2022, 120, 130501.	3.3	2
5	Compact Biomimetic Hair Sensors Based on Single Silicon Nanowires for Ultrafast and Highly-Sensitive Airflow Detection. <i>Nano Letters</i> , 2021, 21, 4684-4691.	9.1	27
6	Single-Crystalline Silicon Frameworks: A New Platform for Transparent Flexible Optoelectronics. <i>Advanced Materials</i> , 2021, 33, e2008171.	21.0	13
7	Cation exchange synthesis of two-dimensional vertical Cu ₂ S/CdS heterojunctions for photovoltaic device applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 789-796.	10.3	23
8	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. <i>Nano Letters</i> , 2020, 20, 2478-2485.	9.1	51
9	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. <i>Nano Research</i> , 2019, 12, 2723-2728.	10.4	11
10	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3772-3776.	13.8	28
11	Large-Scale Fabrication of Silicon Nanowires for Solar Energy Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34527-34543.	8.0	45
12	Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , 2017, 17, 7323-7329.	9.1	29
13	Large-scale assembly of highly sensitive Si-based flexible strain sensors for human motion monitoring. <i>Nanoscale</i> , 2016, 8, 2123-2128.	5.6	65
14	The diameter-dependent photoelectrochemical performance of silicon nanowires. <i>Chemical Communications</i> , 2016, 52, 1369-1372.	4.1	19
15	Quantitative analysis of photons' decaying pathways in Si nanowire arrays for highly efficient photoelectrochemical solar hydrogen generation. <i>Chemical Communications</i> , 2015, 51, 3383-3386.	4.1	7
16	A Stable Flexible Silicon Nanowire Array as Anode for High-Performance Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 176, 321-326.	5.2	14