Quan Qing

List of Publications by Year
in descending order

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31 papers	5,168 citations	304743 22 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	7773 citing authors

#	Article	IF	Citations
1	Nanopore chip with self-aligned transverse tunneling junction for DNA detection. Biosensors and Bioelectronics, 2021, 193, 113552.	10.1	4
2	Electrically synchronizing and modulating the dynamics of ERK activation to regulate cell fate. IScience, 2021, 24, 103240.	4.1	9
3	Controlling ERK Activation Dynamics in Mammary Epithelial Cells with Alternating Electric Fields through Microelectrodes. Nano Letters, 2019, 19, 7526-7533.	9.1	10
4	Ultra-Low-Loss High-Contrast Gratings Based Spoof Surface Plasmonic Waveguide. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2008-2018.	4.6	48
5	Confined Electrochemical Deposition in Sub-15 nm Space for Preparing Nanogap Electrodes. ECS Transactions, 2017, 77, 65-72.	0.5	3
6	Scalable Fabrication Framework of Implantable Ultrathin and Flexible Probes with Biodegradable Sacrificial Layers. Nano Letters, 2017, 17, 7315-7322.	9.1	12
7	Confined Electrochemical Deposition in Sub-15 nm Space for Preparing Nanogap Electrodes. ECS Meeting Abstracts, 2017, , .	0.0	0
8	High-Contrast Gratings based Spoof Surface Plasmons. Scientific Reports, 2016, 6, 21199.	3.3	22
9	Free-standing kinked nanowire transistor probes for targeted intracellular recording in three dimensions. Nature Nanotechnology, 2014, 9, 142-147.	31.5	230
10	Fixed-Gap Tunnel Junction for Reading DNA Nucleotides. ACS Nano, 2014, 8, 11994-12003.	14.6	48
11	Multiplexed Free-Standing Nanowire Transistor Bioprobe for Intracellular Recording: A General Fabrication Strategy. Nano Letters, 2014, 14, 3602-3607.	9.1	18
12	Design and Synthesis of Diverse Functional Kinked Nanowire Structures for Nanoelectronic Bioprobes. Nano Letters, 2013, 13, 746-751.	9.1	94
13	Intracellular recordings of action potentials by an extracellular nanoscale field-effect transistor. Nature Nanotechnology, 2012, 7, 174-179.	31.5	412
14	Macroporous nanowire nanoelectronic scaffolds for synthetic tissues. Nature Materials, 2012, 11, 986-994.	27.5	561
15	Local electrical potential detection of DNA by nanowireâ€“nanopore sensors. Nature Nanotechnology, 2012, 7, 119-125.	31.5	288
16	Outside Looking In: Nanotube Transistor Intracellular Sensors. Nano Letters, 2012, 12, 3329-3333.	9.1	113
17	Synthetically Encoded Ultrashort-Channel Nanowire Transistors for Fast, Pointlike Cellular Signal Detection. Nano Letters, 2012, 12, 2639-2644.	9.1	82
18	Kinked pâ€“n Junction Nanowire Probes for High Spatial Resolution Sensing and Intracellular Recording. Nano Letters, 2012, 12, 1711-1716.	9.1	119

#	Article	IF	Citations
19	Three-Dimensional, Flexible Nanoscale Field-Effect Transistors as Localized Bioprobes. Science, 2010, 329, 830-834.	12.6	734
20	Graphene Fieldâ€Effect Transistors: Electrochemical Gating, Interfacial Capacitance, and Biosensing Applications. Chemistry - an Asian Journal, 2010, 5, 2144-2153.	3.3	64
21	Design and Implementation of Functional Nanoelectronic Interfaces With Biomolecules, Cells, and Tissue Using Nanowire Device Arrays. IEEE Nanotechnology Magazine, 2010, 9, 269-280.	2.0	103
22	Nanowire transistor arrays for mapping neural circuits in acute brain slices. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1882-1887.	7.1	187
23	Graphene and Nanowire Transistors for Cellular Interfaces and Electrical Recording. Nano Letters, 2010, 10, 1098-1102.	9.1	365
24	Local Gate Effect of Mechanically Deformed Crossed Carbon Nanotube Junction. Nano Letters, 2010, 10, 4715-4720.	9.1	7
25	Electrical Recording from Hearts with Flexible Nanowire Device Arrays. Nano Letters, 2009, 9, 914-918.	9.1	205
26	Electrochemical Gate-Controlled Charge Transport in Graphene in Ionic Liquid and Aqueous Solution. Journal of the American Chemical Society, 2009, 131, 9908-9909.	13.7	238
27	Formation of nanogaps by nanoscale Cu electrodeposition and dissolution. Electrochimica Acta, 2007, 52, 4210-4214.	5.2	5
28	Finely Tuning Metallic Nanogap Size with Electrodeposition by Utilizing High-Frequency Impedance in Feedback. Angewandte Chemie - International Edition, 2005, 44, 7771-7775.	13.8	31
29	Electrochemical approach for fabricating nanogap electrodes with well controllable separation. Applied Physics Letters, 2005, 86, 123105.	3.3	48
30	Controllable Interconnection of Single-Walled Carbon Nanotubes under AC Electric Field. Journal of Physical Chemistry B, 2005, 109, 11420-11423.	2.6	61
31	Effect of Chemical Oxidation on the Structure of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 3712-3718.	2.6	1,045