Mengmeng Xiao

List of Publications by Year
in descending order

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18 papers	1,932 citations	567281 15 h-index	888059 17 g-index
18 all docs	18 docs citations	18 times ranked	2610 citing authors

#	Article	IF	Citations
1	Toward practical gas sensing with rapid recovery semiconducting carbon nanotube film sensors. Science China Information Sciences, 2022, 65, 1.	4.3	13
2	Aptamer-Functionalized Carbon Nanotube Field-Effect Transistor Biosensors for Alzheimerâ€™s Disease Serum Biomarker Detection. ACS Sensors, 2022, 7, 2075-2083.	7.8	38
3	Twin physically unclonable functions based on aligned carbon nanotube arrays. Nature Electronics, 2022, 5, 424-432.	26.0	19
4	Aligned, high-density semiconducting carbon nanotube arrays for high-performance electronics. Science, 2020, 368, 850-856.	12.6	308
5	Wafer-Scale Uniform Carbon Nanotube Transistors for Ultrasensitive and Label-Free Detection of Disease Biomarkers. ACS Nano, 2020, 14, 8866-8874.	14.6	110
6	Two-Dimensional Metallic NiTe₂ with Ultrahigh Environmental Stability, Conductivity, and Electrocatalytic Activity. ACS Nano, 2020, 14, 9011-9020.	14.6	60
7	nâ€Type Diracâ€Source Fieldâ€Effect Transistors Based on a Graphene/Carbon Nanotube Heterojunction. Advanced Electronic Materials, 2020, 6, 2000258.	5.1	16
8	Sensitive Molybdenum Disulfide Based Field Effect Transistor Sensor for Real-time Monitoring of Hydrogen Peroxide. Scientific Reports, 2019, 9, 759.	3.3	36
9	Ultrasensitive Monolayer MoS₂ Field-Effect Transistor Based DNA Sensors for Screening of Down Syndrome. Nano Letters, 2019, 19, 1437-1444.	9.1	165
10	Batch Fabrication of Ultrasensitive Carbon Nanotube Hydrogen Sensors with Sub-ppm Detection Limit. ACS Sensors, 2018, 3, 749-756.	7.8	76
11	High-Performance Carbon Nanotube Complementary Electronics and Integrated Sensor Systems on Ultrathin Plastic Foil. ACS Nano, 2018, 12, 2773-2779.	14.6	90
12	Scalable Preparation of High-Density Semiconducting Carbon Nanotube Arrays for High-Performance Field-Effect Transistors. ACS Nano, 2018, 12, 627-634.	14.6	57
13	Gigahertz integrated circuits based on carbon nanotube films. Nature Electronics, 2018, 1, 40-45.	26.0	132
14	Dirac-source field-effect transistors as energy-efficient, high-performance electronic switches. Science, 2018, 361, 387-392.	12.6	226
15	Scaling carbon nanotube complementary transistors to 5-nm gate lengths. Science, 2017, 355, 271-276.	12.6	526
16	Atomic-Layer-Deposition Growth of an Ultrathin HfO₂ Film on Graphene. ACS Applied Materials & Interfaces, 2017, 9, 34050-34056.	8.0	42
17	Solution-processed carbon nanotubes based transistors with current density of 1.7 mA/Î¼m and peak transconductance of 0.8 mS/Î¼m. , 2017, , .		12
18	Exploration of vertical scaling limit in carbon nanotube transistors. Applied Physics Letters, 2016, 108, .	3.3	6