

# Mengmeng Xiao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8506723/publications.pdf>

Version: 2024-02-01

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