

# Xiaochuan Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

1,538  
citations

471061

17  
h-index

713013

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

2681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional macroporous nanoelectronic networks as minimally invasive brain probes. <i>Nature Materials</i> , 2015, 14, 1286-1292.	13.3	334
2	Specific detection of biomolecules in physiological solutions using graphene transistor biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14633-14638.	3.3	200
3	Three-dimensional mapping and regulation of action potential propagation in nanoelectronics-innervated tissues. <i>Nature Nanotechnology</i> , 2016, 11, 776-782.	15.6	160
4	Long Term Stability of Nanowire Nanoelectronics in Physiological Environments. <i>Nano Letters</i> , 2014, 14, 1614-1619.	4.5	126
5	Advances in nanowire bioelectronics. <i>Reports on Progress in Physics</i> , 2017, 80, 016701.	8.1	99
6	Multifunctional three-dimensional macroporous nanoelectronic networks for smart materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6694-6699.	3.3	85
7	Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues. <i>Accounts of Chemical Research</i> , 2018, 51, 309-318.	7.6	68
8	Flexible Electrodes for In Vivo and In Vitro Electrophysiological Signal Recording. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100646.	3.9	62
9	Sub-10-nm intracellular bioelectronic probes from nanowire-nanotube heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1259-1264.	3.3	59
10	Hydrogel Gate Graphene Field-Effect Transistors as Multiplexed Biosensors. <i>Nano Letters</i> , 2019, 19, 2620-2626.	4.5	52
11	Solvent-Dependent Cage Dynamics of Small Nonpolar Radicals: Lessons from the Photodissociation and Geminate Recombination of Alkylcobalamins. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8513-8522.	1.1	47
12	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	43
13	Crinkling Ultralong Carbon Nanotubes into Serpentine by a Controlled Landing Process. <i>Advanced Materials</i> , 2009, 21, 4158-4162.	11.1	38
14	Modularized Field-Effect Transistor Biosensors. <i>Nano Letters</i> , 2019, 19, 6658-6664.	4.5	38
15	Tuning the Diameter of Single-Walled Carbon Nanotubes by Temperature-Mediated Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13051-13059.	1.5	32
16	Synergistically Detachable Microneedle Dressing for Programmed Treatment of Chronic Wounds. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102180.	3.9	30
17	Three-dimensional transistor arrays for intra- and inter-cellular recording. <i>Nature Nanotechnology</i> , 2022, 17, 292-300.	15.6	30
18	Self-resetting molecular probes for nucleic acids detection enabled by fuel dissipative systems. <i>Nano Today</i> , 2021, 41, 101308.	6.2	17

#	ARTICLE	IF	CITATIONS
19	Biosynthetic Electronic Interfaces for Bridging Microbial and Inorganic Electron Transport. <i>Nano Letters</i> , 2019, 19, 8787-8792.	4.5	9
20	Sub-10 nm Nanolaminated Al <sub>2</sub> O <sub>3</sub> /HfO <sub>2</sub> Coatings for Long-Term Stability of Cu Plasmonic Nanodisks in Physiological Environments. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31952-31961.	4.0	5
21	Bottom-Up Construction of Electrochemically Active Living Filters: From Graphene Oxide Mediated Formation of Bacterial Cables to 3D Assembly of Hierarchical Architectures. <i>ACS Applied Bio Materials</i> , 2020, 3, 7376-7381.	2.3	4