

# Tianchao Niu

## List of Publications by Year in descending order

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57  
papers

1,924  
citations

304368

22  
h-index

253896

43  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3832  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorene. , 2022, , 121-148.		1
2	Epitaxial Growth of Main Group Monoelemental 2D Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2006997.	7.8	37
3	Phase Engineering of Epitaxial Stanene on a Surface Alloy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 211-217.	2.1	6
4	Lateral epitaxial growth of two-dimensional heterostructure linked by gold adatoms. <i>Nano Research</i> , 2021, 14, 887-892.	5.8	3
5	Atomic mechanism of the phase transition in monolayer bismuthene on copper oxide. <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
6	Experimental Realization and Phase Engineering of a Two-Dimensional SnSb Binary Honeycomb Lattice. <i>ACS Nano</i> , 2021, 15, 16335-16343.	7.3	5
7	Two-Dimensional Iron Oxide on Au(111): Growth Mechanism and Interfacial Properties. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24755-24763.	1.5	4
8	Large-scale Synthesis of Strain-tunable Semiconducting Antimonene on Copper Oxide. <i>Advanced Materials</i> , 2020, 32, e1906873.	11.1	46
9	Interface-doping modulated structural and electronic properties of two-dimensional silica supported on metal substrate. <i>Applied Surface Science</i> , 2020, 506, 144677.	3.1	1
10	Epitaxial growth of elemental 2D materials: What can we learn from the periodic table?. <i>Nano Today</i> , 2020, 30, 100805.	6.2	18
11	Carbon nanotubes advance next-generation electronics. <i>Nano Today</i> , 2020, 35, 100992.	6.2	11
12	Tailoring structural features and functions of fullerene rod crystals by a ferrocene-modified fullerene derivative. <i>CrystEngComm</i> , 2020, 22, 6287-6294.	1.3	7
13	Bio-Inspired Passion Fruit-like Fe <sub>3</sub> O <sub>4</sub> @C Nanospheres Enabling High-Stability Magnetorheological Performances. <i>Langmuir</i> , 2020, 36, 7706-7714.	1.6	15
14	Epitaxial Growth of Flat, Metallic Monolayer Phosphorene on Metal Oxide. <i>ACS Nano</i> , 2020, 14, 2385-2394.	7.3	27
15	Reversible oxidation and reduction of gold-supported iron oxide islands at room temperature. <i>Journal of Chemical Physics</i> , 2020, 152, 074710.	1.2	10
16	Epitaxial growth of single tellurium atomic wires on a Cu <sub>2</sub> Sb surface alloy. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	10
17	Recent Advances in Tin: From Two-Dimensional Quantum Spin Hall Insulator to Bulk Dirac Semimetal. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1317-1329.	2.1	15
18	Surface Engineering of Two-Dimensional Materials. <i>ChemNanoMat</i> , 2019, 5, 6-23.	1.5	22

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19	Interfacial Effects on the Growth of Atomically Thin Film: Group VA Elements on Au(111). <i>Advanced Materials Interfaces</i> , 2019, 6, 1901050.	1.9	14
20	Imaging and Dynamics of Water Hexamer Confined in Nanopores. <i>ACS Nano</i> , 2019, 13, 10622-10630.	7.3	10
21	2D (Alumino)Silicate Noble Clathrates: Ionization-Facilitated Formation of 2D (Alumino)Silicate Noble Gas Clathrate Compounds ( <i>Adv. Funct. Mater.</i> 20/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970137.	7.8	0
22	Single-Crystal Graphene Wafers: Epitaxial Growth of 6 in. Single-Crystalline Graphene on a Cu/Ni (111) Film at 750 °C via Chemical Vapor Deposition ( <i>Small</i> 22/2019). <i>Small</i> , 2019, 15, 1970120.	5.2	0
23	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. <i>Advanced Materials</i> , 2019, 31, e1902606.	11.1	84
24	Defect Generation and Surface Functionalization on Epitaxial Blue Phosphorene by C60 Adsorption. <i>Journal of Physical Chemistry C</i> , 2019, , .	1.5	13
25	Submolecular Imaging of Parallel Offset $\pi$ - $\pi$ Stacking in Nonplanar Phthalocyanine Bilayers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7178-7184.	1.5	4
26	Ionization-Facilitated Formation of 2D (Alumino)Silicate Noble Gas Clathrate Compounds. <i>Advanced Functional Materials</i> , 2019, 29, 1806583.	7.8	20
27	Epitaxial Growth of 6 in. Single-Crystalline Graphene on a Cu/Ni (111) Film at 750 °C via Chemical Vapor Deposition. <i>Small</i> , 2019, 15, e1805395.	5.2	71
28	Conformational Transitions of Phase-Separated Binary Molecules Assisted by Surface Dehalogenation. <i>Langmuir</i> , 2019, 35, 3507-3512.	1.6	1
29	Halogen-Atom Mediated Phase Transition of Two-Dimensional Molecular Self-Assembly on a Metal Surface. <i>Langmuir</i> , 2018, 34, 553-560.	1.6	18
30	Old materials with new properties II: The metal carbides. <i>Nano Today</i> , 2018, 18, 12-14.	6.2	26
31	Oxygen-Promoted Methane Activation on Copper. <i>Journal of Physical Chemistry B</i> , 2018, 122, 855-863.	1.2	29
32	Two-dimensional black phosphorus: its fabrication, functionalization and applications. <i>Nanoscale</i> , 2018, 10, 21575-21603.	2.8	73
33	Surface Reconstruction of Germanium: Hydrogen Intercalation and Graphene Protection. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21874-21882.	1.5	19
34	Enhanced Stability and Tunable Photoluminescence in Perovskite CsPbX <sub>3</sub> /ZnS Quantum Dot Heterostructure. <i>Small</i> , 2017, 13, 1604085.	5.2	195
35	Phosphorus Nanostripe Arrays on Cu(110): A Case Study to Understand the Substrate Effect on the Phosphorus thin Film Growth. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601167.	1.9	18
36	Atomic mechanism for the growth of wafer-scale single-crystal graphene: theoretical perspective and scanning tunneling microscopy investigations. <i>2D Materials</i> , 2017, 4, 042002.	2.0	11

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37	New properties with old materials: Layered black phosphorous. Nano Today, 2017, 12, 7-9.	6.2	19
38	Copper-Vapor-Assisted Rapid Synthesis of Large AB-Stacked Bilayer Graphene Domains on Cu-Ni Alloy. Small, 2016, 12, 2009-2013.	5.2	39
39	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. Nano Letters, 2016, 16, 3160-3165.	4.5	92
40	Graphene: Copper-Vapor-Assisted Rapid Synthesis of Large AB-Stacked Bilayer Graphene Domains on Cu-Ni Alloy (Small 15/2016). Small, 2016, 12, 1962-1962.	5.2	3
41	Low Temperature Critical Growth of High Quality Nitrogen Doped Graphene on Dielectrics by Plasma-Enhanced Chemical Vapor Deposition. ACS Nano, 2015, 9, 164-171.	7.3	125
42	Surface strain mediated dipole alignment of ClAlPc on Au(111). Applied Physics Letters, 2015, 106, .	1.5	9
43	Electric-Field-Induced Molecular Switch of Single Dipolar Phthalocyanine on Cu(111): A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2015, 119, 19802-19807.	1.5	11
44	From two-dimensional materials to heterostructures. Progress in Surface Science, 2015, 90, 21-45.	3.8	123
45	CHAPTER 3. Low-Dimensional Supramolecular Assemblies on Surfaces. RSC Smart Materials, 2014, , 98-118.	0.1	2
46	Single molecule tunneling spectroscopy investigation of reversibly switched dipolar vanadyl phthalocyanine on graphite. Applied Physics Letters, 2014, 104, .	1.5	13
47	Molecular Ordering and Dipole Alignment of Vanadyl Phthalocyanine Monolayer on Metals: The Effects of Interfacial Interactions. Journal of Physical Chemistry C, 2014, 118, 4151-4159.	1.5	38
48	Elementary Process for CVD Graphene on Cu(110): Size-selective Carbon Clusters. Scientific Reports, 2014, 4, 4431.	1.6	30
49	Exploring Single Molecules by Scanning Probe Microscopy: Porphyrin and Phthalocyanine. Journal of Physical Chemistry Letters, 2013, 4, 4095-4102.	2.1	35
50	Critical Crystal Growth of Graphene on Dielectric Substrates at Low Temperature for Electronic Devices. Angewandte Chemie - International Edition, 2013, 52, 14121-14126.	7.2	125
51	Facile synthesis of uniform $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> crystals and their facet-dependent catalytic performance in the photo-Fenton reaction. Journal of Materials Chemistry A, 2013, 1, 7242.	5.2	92
52	Growth Intermediates for CVD Graphene on Cu(111): Carbon Clusters and Defective Graphene. Journal of the American Chemical Society, 2013, 135, 8409-8414.	6.6	132
53	Low-Temperature, Bottom-Up Synthesis of Graphene via a Radical-Coupling Reaction. Journal of the American Chemical Society, 2013, 135, 9050-9054.	6.6	63
54	Self-Assembly of Polar Phthalocyanine Molecules on Graphene Grown by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2013, 117, 21849-21855.	1.5	42

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55	Dipole Orientation Dependent Symmetry Reduction of Chloroaluminum Phthalocyanine on Cu(111). Journal of Physical Chemistry C, 2013, 117, 1013-1019.	1.5	38
56	Substrate Reconstruction Mediated Unidirectionally Aligned Molecular Dipole Dot Arrays. Journal of Physical Chemistry C, 2012, 116, 11565-11569.	1.5	20
57	Structure of water at ionic liquid/Ag interface probed by surface enhanced Raman spectroscopy. Science China Chemistry, 2011, 54, 200-204.	4.2	5