

Qiran Cai

List of Publications by Year in descending order

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33
papers

3,304
citations

304743

22
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

5954
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecule-Level g-C ₃ N ₄ Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 3336-3339.	13.7	1,094
2	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017, 8, 15815.	12.8	576
3	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. <i>Science Advances</i> , 2019, 5, eaav0129.	10.3	308
4	Metal-Catalyst-Free Growth of Single-Walled Carbon Nanotubes on Substrates. <i>Journal of the American Chemical Society</i> , 2009, 131, 2094-2095.	13.7	226
5	Raman signature and phonon dispersion of atomically thin boron nitride. <i>Nanoscale</i> , 2017, 9, 3059-3067.	5.6	141
6	Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. <i>Composites Science and Technology</i> , 2018, 165, 322-330.	7.8	98
7	High temperature and high rate lithium-ion batteries with boron nitride nanotubes coated polypropylene separators. <i>Energy Storage Materials</i> , 2019, 19, 352-359.	18.0	82
8	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8405-8409.	13.8	73
9	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3543-3550.	8.0	72
10	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7761-7766.	2.8	61
11	Highly efficient oxygen evolution from CoS ₂ /CNT nanocomposites via a one-step electrochemical deposition and dissolution method. <i>Nanoscale</i> , 2017, 9, 6886-6894.	5.6	55
12	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15630-15636.	8.0	54
13	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. <i>Physical Review Letters</i> , 2020, 125, 085902.	7.8	51
14	Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. <i>Advanced Functional Materials</i> , 2016, 26, 8202-8210.	14.9	47
15	Electron beam directed etching of hexagonal boron nitride. <i>Nanoscale</i> , 2016, 8, 16182-16186.	5.6	40
16	Asymmetric electric field screening in van der Waals heterostructures. <i>Nature Communications</i> , 2018, 9, 1271.	12.8	38
17	Advances in synthesis and applications of boron nitride nanotubes: A review. <i>Chemical Engineering Journal</i> , 2022, 431, 134118.	12.7	38
18	Identification of the Structures of Superlong Oriented Single-Walled Carbon Nanotube Arrays by Electrodeposition of Metal and Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 11860-11861.	13.7	35

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19	Boron Nitride Nanosheet Dispersion at High Concentrations. ACS Applied Materials & Interfaces, 2021, 13, 44751-44759.	8.0	30
20	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. ACS Applied Materials & Interfaces, 2020, 12, 19866-19873.	8.0	27
21	Superlong-oriented Single-Walled Carbon Nanotube Arrays on Substrate with Low Percentage of Metallic Structure. Journal of Physical Chemistry C, 2009, 113, 6983-6988.	3.1	25
22	Atomically Thin Boron Nitride as an Ideal Spacer for Metal-Enhanced Fluorescence. ACS Nano, 2019, 13, 12184-12191.	14.6	24
23	Two-Dimensional Van der Waals Heterostructures for Synergistically Improved Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2020, 12, 21985-21991.	8.0	17
24	In situ prepared V_2O_5 /graphene hybrid as a superior cathode material for lithium-ion batteries. RSC Advances, 2016, 6, 35287-35294.	3.6	14
25	Growth of carbon nanotubes from titanium dioxide nanoparticles. Applied Surface Science, 2012, 258, 8019-8025.	6.1	13
26	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. Angewandte Chemie, 2016, 128, 8545-8549.	2.0	13
27	Neuron-Inspired Interpenetrative Network Composed of Cobalt-Phosphorus-Derived Nanoparticles Embedded within Porous Carbon Nanotubes for Efficient Hydrogen Production. ACS Applied Materials & Interfaces, 2016, 8, 17284-17291.	8.0	13
28	Rigorous and Accurate Contrast Spectroscopy for Ultimate Thickness Determination of Micrometer-Sized Graphene on Gold and Molecular Sensing. ACS Applied Materials & Interfaces, 2018, 10, 22520-22528.	8.0	12
29	Ceria/cobalt borate hybrids as efficient electrocatalysts for water oxidation under neutral conditions. Nanoscale Advances, 2019, 1, 3686-3692.	4.6	10
30	Boron nitride nanosheets for surface-enhanced Raman spectroscopy. Materials Today Physics, 2022, 22, 100575.	6.0	6
31	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. 2D Materials, 2021, 8, 034006.	4.4	5
32	Nanomaterials enhancing the solid-state storage and decomposition of ammonia. Nanotechnology, 2022, 33, 222001.	2.6	4
33	Growth of Single-Walled Carbon Nanotubes from Well-Defined POSS Nanoclusters Structure. Nano, 2015, 10, 1550004.	1.0	0