Cheng Gong

List of Publications by Year
in descending order

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43 papers	8,747 citations	257450 24 h-index	254184 43 g-index
44 all docs	44 docs citations	44 times ranked	12120 citing authors

#	Article	IF	Citations
1	Discovery of intrinsic ferromagnetism in two-dimensional van der Waals crystals. Nature, 2017, 546, 265-269.	27.8	3,260
2	Two-dimensional magnetic crystals and emergent heterostructure devices. Science, 2019, 363, .	12.6	1,039
3	Band alignment of two-dimensional transition metal dichalcogenides: Application in tunnel field effect transistors. Applied Physics Letters, 2013, 103, .	3.3	657
4	The Unusual Mechanism of Partial Fermi Level Pinning at Metalâ€“MoS₂ Interfaces. Nano Letters, 2014, 14, 1714-1720.	9.1	629
5	The Role of Intercalated Water in Multilayered Graphene Oxide. ACS Nano, 2010, 4, 5861-5868.	14.6	359
6	First-principles study of metalâ€“graphene interfaces. Journal of Applied Physics, 2010, 108, .	2.5	358
7	Single-crystalline layered metal-halide perovskite nanowires for ultrasensitive photodetectors. Nature Electronics, 2018, 1, 404-410.	26.0	351
8	Metal Contacts on Physical Vapor Deposited Monolayer MoS₂. ACS Nano, 2013, 7, 11350-11357.	14.6	275
9	Multiferroicity in atomic van der Waals heterostructures. Nature Communications, 2019, 10, 2657.	12.8	224
10	Patterning-Induced Ferromagnetism of Fe₃GeTe₂ van der Waals Materials beyond Room Temperature. Nano Letters, 2018, 18, 5974-5980.	9.1	177
11	Hole Contacts on Transition Metal Dichalcogenides: Interface Chemistry and Band Alignments. ACS Nano, 2014, 8, 6265-6272.	14.6	173
12	Electrically induced 2D half-metallic antiferromagnets and spin field effect transistors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8511-8516.	7.1	163
13	Systematic study of electronic structure and band alignment of monolayer transition metal dichalcogenides in Van der Waals heterostructures. 2D Materials, 2017, 4, 015026.	4.4	160
14	Field Emission from Atomically Thin Edges of Reduced Graphene Oxide. ACS Nano, 2011, 5, 4945-4952.	14.6	139
15	Metalâ€“Grapheneâ€“Metal Sandwich Contacts for Enhanced Interface Bonding and Work Function Control. ACS Nano, 2012, 6, 5381-5387.	14.6	114
16	Realistic Metalâ€“Graphene Contact Structures. ACS Nano, 2014, 8, 642-649.	14.6	93
17	Rapid Selective Etching of PMMA Residues from Transferred Graphene by Carbon Dioxide. Journal of Physical Chemistry C, 2013, 117, 23000-23008.	3.1	89
18	Grain Boundary Effect on Electrical Transport Properties of Graphene. Journal of Physical Chemistry C, 2014, 118, 2338-2343.	3.1	71

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19	Graphitization of Graphene Oxide with Ethanol during Thermal Reduction. Journal of Physical Chemistry C, 2012, 116, 9969-9979.	3.1	59
20	Room-Temperature Giant Stark Effect of Single Photon Emitter in van der Waals Material. Nano Letters, 2019, 19, 7100-7105.	9.1	40
21	Schottky Barrier Height of Pd/MoS₂ Contact by Large Area Photoemission Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 38977-38983.	8.0	36
22	Modulation of contact resistance between metal and graphene by controlling the graphene edge, contact area, and point defects: An ab initio study. Journal of Applied Physics, 2014, 115, .	2.5	30
23	Understanding and optimization of graphene gas sensors. Applied Physics Letters, 2021, 119, 013104.	3.3	27
24	Sulfur passivation effect on HfO2/GaAs interface: A first-principles study. Applied Physics Letters, 2011, 98, 232113.	3.3	24
25	Integrated Portable Shrimp-Freshness Prediction Platform Based on Ice-Templated Metalâ€“Organic Framework Colorimetric Combinatorics and Deep Convolutional Neural Networks. ACS Sustainable Chemistry and Engineering, 2021, 9, 16926-16936.	6.7	24
26	Spintronic properties of graphene films grown on Ni(111) substrate. Journal of Applied Physics, 2011, 110, 043704.	2.5	20
27	Film Structure of Epitaxial Graphene Oxide on SiC: Insight on the Relationship Between Interlayer Spacing, Water Content, and Intralayer Structure. Advanced Materials Interfaces, 2014, 1, 1300106.	3.7	18
28	An Integrated Food Freshness Sensor Array System Augmented by a Metalâ€“Organic Framework Mixed-Matrix Membrane and Deep Learning. ACS Sensors, 2022, 7, 1847-1854.	7.8	18
29	Ambient effect on the Curie temperatures and magnetic domains in metallic two-dimensional magnets. Npj 2D Materials and Applications, 2021, 5, .	7.9	13
30	First-Principles Study of Crown Ether and Crown Ether-Li Complex Interactions with Graphene. Journal of Physical Chemistry C, 2015, 119, 20016-20022.	3.1	11
31	Spinâ€“orbit coupling proximity effect in MoS2/Fe3GeTe2 heterostructures. Applied Physics Letters, 2022, 120, .	3.3	11
32	Si passivation effects on atomic bonding and electronic properties at HfO2/GaAs interface: A first-principles study. Journal of Applied Physics, 2011, 109, 063704.	2.5	9
33	Energetics of metal ion adsorption on and diffusion through crown ethers: First principles study on two-dimensional electrolyte. Solid State Ionics, 2017, 301, 176-181.	2.7	9
34	Controlling interlayer magnetic coupling in the two-dimensional magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:r Physical Review B, 2022, 105, .	3.2	9
35	Observation of strong excitonic magneto-chiral anisotropy in twisted bilayer van der Waals crystals. Nature Communications, 2021, 12, 2088.	12.8	7
36	Strong laser polarization control of coherent phonon excitation in van der Waals material Fe3GeTe2. Npj 2D Materials and Applications, 2022, 6, .	7.9	5

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37	Photon-Assisted CVD Growth of Graphene Using Metal Adatoms As Catalysts. Journal of Physical Chemistry C, 2012, 116, 18263-18269.	3.1	4
38	Electronic transport across metal-graphene edge contact. 2D Materials, 2017, 4, 025033.	4.4	4
39	Materials Design on the Origin of Gap States in a High-Î¹/GaAs Interface. Engineering, 2015, 1, 372-377.	6.7	3
40	Materials Science of Graphene for Novel Device Applications. ECS Transactions, 2009, 19, 185-199.	0.5	2
41	First-Principles and Quantum Transport Studies of Metal-Graphene End Contacts. Materials Research Society Symposia Proceedings, 2010, 1259, 1.	0.1	2
42	Ferroelectric Switching of Pure Spin Polarization in Two-Dimensional Electron Gas. Nano Letters, 2020, 20, 7230-7236.	9.1	2
43	Chemical bonding and stability of multilayer graphene oxide layers. , 2014, , .		0