Libo Gao

List of Publications by Year
in descending order

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Version: 2024-02-01

46 papers	12,561 citations	159525 30 h-index	223716 46 g-index
46 all docs	46 docs citations	46 times ranked	18793 citing authors

#	Article	IF	Citations
1	Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. Nature Materials, 2011, 10, 424-428.	13.3	3,493
2	Graphene Anchored with Co₃O₄ Nanoparticles as Anode of Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance. ACS Nano, 2010, 4, 3187-3194.	7.3	2,358
3	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. Nature Communications, 2012, 3, 699.	5.8	985
4	Efficient Preparation of Large-Area Graphene Oxide Sheets for Transparent Conductive Films. ACS Nano, 2010, 4, 5245-5252.	7.3	869
5	Synthesis of Graphene Sheets with High Electrical Conductivity and Good Thermal Stability by Hydrogen Arc Discharge Exfoliation. ACS Nano, 2009, 3, 411-417.	7.3	807
6	Synthesis of high-quality graphene with a pre-determined number of layers. Carbon, 2009, 47, 493-499.	5.4	650
7	Field Emission of Singleâ€Layer Graphene Films Prepared by Electrophoretic Deposition. Advanced Materials, 2009, 21, 1756-1760.	11.1	624
8	Face-to-face transfer of wafer-scale graphene films. Nature, 2014, 505, 190-194.	13.7	386
9	Metal-Catalyst-Free Growth of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 2082-2083.	6.6	258
10	Chemical vapour deposition. Nature Reviews Methods Primers, 2021, 1, .	11.8	244
11	Efficient growth of high-quality graphene films on Cu foils by ambient pressure chemical vapor deposition. Applied Physics Letters, 2010, 97, .	1.5	176
12	Chemical Vapor Deposition of Largeâ€Sized Hexagonal WSe₂ Crystals on Dielectric Substrates. Advanced Materials, 2015, 27, 6722-6727.	11.1	152
13	Efficient synthesis of graphene nanoribbons sonochemically cut from graphene sheets. Nano Research, 2010, 3, 16-22.	5.8	143
14	Total Color Difference for Rapid and Accurate Identification of Graphene. ACS Nano, 2008, 2, 1625-1633.	7.3	135
15	Growth of environmentally stable transition metal selenide films. Nature Materials, 2019, 18, 602-607.	13.3	116
16	Proton-assisted growth of ultra-flat graphene films. Nature, 2020, 577, 204-208.	13.7	111
17	Facile synthesis of coreâ€“shell structured PANI-Co3O4 nanocomposites with superior electrochemical performance in supercapacitors. Applied Surface Science, 2016, 361, 57-62.	3.1	106
18	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. Carbon, 2010, 48, 3543-3550.	5.4	96

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19	Surface and Interference Coenhanced Raman Scattering of Graphene. ACS Nano, 2009, 3, 933-939.	7.3	87
20	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. Nature Communications, 2014, 5, 5461.	5.8	83
21	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. Physical Review B, 2010, 81, .	1.1	77
22	Growth Velocity and Direct Length-Sorted Growth of Short Single-Walled Carbon Nanotubes by a Metal-Catalyst-Free Chemical Vapor Deposition Process. ACS Nano, 2009, 3, 3421-3430.	7.3	76
23	Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure. Advanced Materials, 2019, 31, e1806130.	11.1	75
24	Crystallographic Tailoring of Graphene by Nonmetal SiO_x Nanoparticles. Journal of the American Chemical Society, 2009, 131, 13934-13936.	6.6	68
25	Boosting the performance of single-atom catalysts via external electric field polarization. Nature Communications, 2022, 13, .	5.8	52
26	Additiveâ€Free Dispersion of Singleâ€Walled Carbon Nanotubes and Its Application for Transparent Conductive Films. Advanced Functional Materials, 2011, 21, 2330-2337.	7.8	51
27	Enhancing the Strength of Graphene by a Denser Grain Boundary. ACS Nano, 2018, 12, 4529-4535.	7.3	39
28	Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. Journal of Physical Chemistry C, 2008, 112, 19231-19235.	1.5	37
29	Tuning the Electronic Structure of an Î±-Antimonene Monolayer through Interface Engineering. Nano Letters, 2020, 20, 8408-8414.	4.5	33
30	Synthesis and Microwave Absorption Properties of Core-Shell Structured Co₃O₄-PANI Nanocomposites. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	32
31	Architectured graphene and its composites: Manufacturing and structural applications. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106177.	3.8	22
32	Highly stretchable graphene nanoribbon springs by programmable nanowire lithography. Npj 2D Materials and Applications, 2019, 3, .	3.9	20
33	Largeâ€Area, Periodic, Hexagonal Wrinkles on Nanocrystalline Graphitic Film. Advanced Functional Materials, 2015, 25, 5492-5503.	7.8	16
34	Anisotropic scattering continuum induced by crystal symmetry reduction in atomically thin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi><mml:mo>â€“</mml:mo><mml:mi>RuCl</mml:mi><mml:mi /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 101, .	1.1	13
35	Heteroepitaxial growth of wafer scale highly oriented graphene using inductively coupled plasma chemical vapor deposition. 2D Materials, 2016, 3, 021001.	2.0	12
36	Enhancing stability by tuning element ratio in 2D transition metal chalcogenides. Nano Research, 2021, 14, 1704-1710.	5.8	10

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37	Wall-number selective growth of vertically aligned carbon nanotubes from FePt catalysts: a comparative study with Fe catalysts. Journal of Materials Chemistry, 2012, 22, 14149.	6.7	9
38	Preparation of Ultra-Smooth Cu Surface for High-Quality Graphene Synthesis. Nanoscale Research Letters, 2018, 13, 340.	3.1	8
39	Highâ€Frequency Flexible Graphene Fieldâ€Effect Transistors with Short Gate Length of 50â€‰nm and Record Extrinsic Cutâ€Off Frequency. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700435.	1.2	5
40	Antimonene: Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure (Adv. Mater. 5/2019). Advanced Materials, 2019, 31, 1970035.	11.1	5
41	Turning ZrTe5 into a semiconductor through atom intercalation. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	5
42	Epitaxial Growth of Uniform Single-Layer and Bilayer Graphene with Assistance of Nitrogen Plasma. Nanomaterials, 2021, 11, 3217.	1.9	5
43	Second-harmonic generation in atomically thin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^'</mml:mtext><mml:mn and its possible origin from charge density wave transitions. Physical Review B, 2022, 105, .	3.5	5
44	Superconductivity in two-dimensional Î·-Mo3C2 films. Science China Materials, 2021, 64, 664-672.	3.5	3
45	Tuning the morphology of 2D transition metal chalcogenides via oxidizing conditions. Journal of Physics Condensed Matter, 2022, 34, 195001.	0.7	3
46	Surface etching during epitaxial h-BN growth on graphene. APL Materials, 2021, 9, 071107.	2.2	1