Libo Gao

List of Publications by Citations

42 papers	10,911 citations	26 h-index	46 g-index
46 ext. papers	11,784 ext. citations	13.7 avg, IF	5.97 L-index

#	Paper	IF	Citations
42	Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. *Nature Materials*, **2011**, 10, 424-8	27	3105
41	Graphene anchored with co(3)o(4) nanoparticles as anode of lithium ion batteries with enhanced reversible capacity and cyclic performance. *ACS Nano*, **2010**, 4, 3187-94	16.7	2201
40	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. *Nature Communications*, **2012**, 3, 699	17.4	884
39	Efficient preparation of large-area graphene oxide sheets for transparent conductive films. *ACS Nano*, **2010**, 4, 5245-52	16.7	775
38	Synthesis of graphene sheets with high electrical conductivity and good thermal stability by hydrogen arc discharge exfoliation. *ACS Nano*, **2009**, 3, 411-7	16.7	702
37	Synthesis of high-quality graphene with a pre-determined number of layers. *Carbon*, **2009**, 47, 493-499	10.4	584
36	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. *Advanced Materials*, **2009**, 21, 1756-1760	24	562
35	Face-to-face transfer of wafer-scale graphene films. *Nature*, **2014**, 505, 190-4	50.4	326
34	Metal-catalyst-free growth of single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2009**, 131, 2082-3	16.4	235
33	Efficient growth of high-quality graphene films on Cu foils by ambient pressure chemical vapor deposition. *Applied Physics Letters*, **2010**, 97, 183109	3.4	155
32	Efficient synthesis of graphene nanoribbons sonochemically cut from graphene sheets. *Nano Research*, **2010**, 3, 16-22	10	127
31	Total color difference for rapid and accurate identification of graphene. *ACS Nano*, **2008**, 2, 1625-33	16.7	121
30	Chemical Vapor Deposition of Large-Sized Hexagonal WSe□ Crystals on Dielectric Substrates. *Advanced Materials*, **2015**, 27, 6722-7	24	115
29	Facile synthesis of core□shell structured PANI-Co3O4 nanocomposites with superior electrochemical performance in supercapacitors. *Applied Surface Science*, **2016**, 361, 57-62	6.7	83
28	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. *Carbon*, **2010**, 48, 3543-3550	10.4	83
27	Surface and interference coenhanced Raman scattering of graphene. *ACS Nano*, **2009**, 3, 933-9	16.7	81
26	Chemical vapour deposition. *Nature Reviews Methods Primers*, **2021**, 1,		80

25	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, 3421-30	16.7	72
24	Growth of environmentally stable transition metal selenide films. *Nature Materials*, **2019**, 18, 602-607	27	69
23	Proton-assisted growth of ultra-flat graphene films. *Nature*, **2020**, 577, 204-208	50.4	68
22	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. *Physical Review B*, **2010**, 81,	3.3	65
21	Crystallographic tailoring of graphene by nonmetal SiO(x) nanoparticles. *Journal of the American Chemical Society*, **2009**, 131, 13934-6	16.4	62
20	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. *Nature Communications*, **2014**, 5, 5461	17.4	61
19	Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure. *Advanced Materials*, **2019**, 31, e1806130	24	61
18	Additive-Free Dispersion of Single-Walled Carbon Nanotubes and Its Application for Transparent Conductive Films. *Advanced Functional Materials*, **2011**, 21, 2330-2337	15.6	47
17	Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. *Journal of Physical Chemistry C*, **2008**, 112, 19231-19235	3.8	34
16	Synthesis and Microwave Absorption Properties of Core-Shell Structured Co3O4-PANI Nanocomposites. *Journal of Nanomaterials*, **2015**, 2015, 1-8	3.2	25
15	Enhancing the Strength of Graphene by a Denser Grain Boundary. *ACS Nano*, **2018**, 12, 4529-4535	16.7	24
14	Tuning the Electronic Structure of an □Antimonene Monolayer through Interface Engineering. *Nano Letters*, **2020**, 20, 8408-8414	11.5	17
13	Highly stretchable graphene nanoribbon springs by programmable nanowire lithography. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	13
12	Large-Area, Periodic, Hexagonal Wrinkles on Nanocrystalline Graphitic Film. *Advanced Functional Materials*, **2015**, 25, 5492-5503	15.6	13
11	Architectured graphene and its composites: Manufacturing and structural applications. *Composites Part A: Applied Science and Manufacturing*, **2021**, 140, 106177	8.4	11
10	Heteroepitaxial growth of wafer scale highly oriented graphene using inductively coupled plasma chemical vapor deposition. *2D Materials*, **2016**, 3, 021001	5.9	10
9	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		8
8	Anisotropic scattering continuum induced by crystal symmetry reduction in atomically thin □uCl3. *Physical Review B*, **2020**, 101,	3.3	5

7	Enhancing stability by tuning element ratio in 2D transition metal chalcogenides. *Nano Research*, **2021**, 14, 1704-1710	10	5
6	Antimonene: Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure (Adv. Mater. 5/2019). *Advanced Materials*, **2019**, 31, 1970035	24	4
5	Turning ZrTe5 into a semiconductor through atom intercalation. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	4
4	Preparation of Ultra-Smooth Cu Surface for High-Quality Graphene Synthesis. *Nanoscale Research Letters*, **2018**, 13, 340	5	4
3	High-Frequency Flexible Graphene Field-Effect Transistors with Short Gate Length of 50 nm and Record Extrinsic Cut-Off Frequency. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1700435	2.5	3
2	Superconductivity in two-dimensional Mo3C2 films. *Science China Materials*, **2021**, 64, 664-672	7.1	2
1	Surface etching during epitaxial h-BN growth on graphene. *APL Materials*, **2021**, 9, 071107	5.7	0