

# Libo Gao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Surface etching during epitaxial h-BN growth on graphene. <i>APL Materials</i> , <b>2021</b> , 9, 071107	5.7	0
41	Architected graphene and its composites: Manufacturing and structural applications. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 140, 106177	8.4	11
40	Superconductivity in two-dimensional $\text{EMo}_3\text{C}_2$ films. <i>Science China Materials</i> , <b>2021</b> , 64, 664-672	7.1	2
39	Enhancing stability by tuning element ratio in 2D transition metal chalcogenides. <i>Nano Research</i> , <b>2021</b> , 14, 1704-1710	10	5
38	Chemical vapour deposition. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		80
37	Anisotropic scattering continuum induced by crystal symmetry reduction in atomically thin $\text{RuCl}_3$ . <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
36	Proton-assisted growth of ultra-flat graphene films. <i>Nature</i> , <b>2020</b> , 577, 204-208	50.4	68
35	Tuning the Electronic Structure of an $\text{Antimonene}$ Monolayer through Interface Engineering. <i>Nano Letters</i> , <b>2020</b> , 20, 8408-8414	11.5	17
34	Antimonene: Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure (Adv. Mater. 5/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970035	24	4
33	Highly stretchable graphene nanoribbon springs by programmable nanowire lithography. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	13
32	Turning $\text{ZrTe}_5$ into a semiconductor through atom intercalation. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	4
31	Growth of environmentally stable transition metal selenide films. <i>Nature Materials</i> , <b>2019</b> , 18, 602-607	27	69
30	Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806130	24	61
29	High-Frequency Flexible Graphene Field-Effect Transistors with Short Gate Length of 50 nm and Record Extrinsic Cut-Off Frequency. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1700435	2.5	3
28	Enhancing the Strength of Graphene by a Denser Grain Boundary. <i>ACS Nano</i> , <b>2018</b> , 12, 4529-4535	16.7	24
27	Preparation of Ultra-Smooth Cu Surface for High-Quality Graphene Synthesis. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 340	5	4
26	Facile synthesis of core-shell structured PANI- $\text{Co}_3\text{O}_4$ nanocomposites with superior electrochemical performance in supercapacitors. <i>Applied Surface Science</i> , <b>2016</b> , 361, 57-62	6.7	83

25	Heteroepitaxial growth of wafer scale highly oriented graphene using inductively coupled plasma chemical vapor deposition. <i>2D Materials</i> , <b>2016</b> , 3, 021001	5.9	10
24	Chemical Vapor Deposition of Large-Sized Hexagonal WSe <sub>2</sub> Crystals on Dielectric Substrates. <i>Advanced Materials</i> , <b>2015</b> , 27, 6722-7	24	115
23	Large-Area, Periodic, Hexagonal Wrinkles on Nanocrystalline Graphitic Film. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5492-5503	15.6	13
22	Synthesis and Microwave Absorption Properties of Core-Shell Structured Co <sub>3</sub> O <sub>4</sub> -PANI Nanocomposites. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-8	3.2	25
21	Face-to-face transfer of wafer-scale graphene films. <i>Nature</i> , <b>2014</b> , 505, 190-4	50.4	326
20	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. <i>Nature Communications</i> , <b>2014</b> , 5, 5461	17.4	61
19	Wall-number selective growth of vertically aligned carbon nanotubes from FePt catalysts: a comparative study with Fe catalysts. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14149		8
18	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. <i>Nature Communications</i> , <b>2012</b> , 3, 699	17.4	884
17	Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. <i>Nature Materials</i> , <b>2011</b> , 10, 424-8	27	3105
16	Additive-Free Dispersion of Single-Walled Carbon Nanotubes and Its Application for Transparent Conductive Films. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2330-2337	15.6	47
15	Efficient growth of high-quality graphene films on Cu foils by ambient pressure chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 183109	3.4	155
14	Efficient preparation of large-area graphene oxide sheets for transparent conductive films. <i>ACS Nano</i> , <b>2010</b> , 4, 5245-52	16.7	775
13	Graphene anchored with Co <sub>3</sub> O <sub>4</sub> nanoparticles as anode of lithium ion batteries with enhanced reversible capacity and cyclic performance. <i>ACS Nano</i> , <b>2010</b> , 4, 3187-94	16.7	2201
12	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	65
11	Efficient synthesis of graphene nanoribbons sonochemically cut from graphene sheets. <i>Nano Research</i> , <b>2010</b> , 3, 16-22	10	127
10	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. <i>Carbon</i> , <b>2010</b> , 48, 3543-3550	10.4	83
9	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. <i>Advanced Materials</i> , <b>2009</b> , 21, 1756-1760	24	562
8	Synthesis of high-quality graphene with a pre-determined number of layers. <i>Carbon</i> , <b>2009</b> , 47, 493-499	10.4	584

7	Metal-catalyst-free growth of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2082-3	16.4	235
6	Crystallographic tailoring of graphene by nonmetal SiO(x) nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13934-6	16.4	62
5	Synthesis of graphene sheets with high electrical conductivity and good thermal stability by hydrogen arc discharge exfoliation. <i>ACS Nano</i> , <b>2009</b> , 3, 411-7	16.7	702
4	Surface and interference coenhanced Raman scattering of graphene. <i>ACS Nano</i> , <b>2009</b> , 3, 933-9	16.7	81
3	Growth velocity and direct length-sorted growth of short single-walled carbon nanotubes by a metal-catalyst-free chemical vapor deposition process. <i>ACS Nano</i> , <b>2009</b> , 3, 3421-30	16.7	72
2	Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19231-19235	3.8	34
1	Total color difference for rapid and accurate identification of graphene. <i>ACS Nano</i> , <b>2008</b> , 2, 1625-33	16.7	121