

Luzhao Sun

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	1,277 citations	20 h-index	35 g-index
50 ext. papers	1,698 ext. citations	13.9 avg, IF	4.5 L-index

#	Paper	IF	Citations
42	Slip-line-guided Growth of Graphene.. <i>Advanced Materials</i> , 2022 , e2201188	24	1
41	Transfer-Enabled Fabrication of Graphene Wrinkle Arrays for Epitaxial Growth of AlN Films. <i>Advanced Materials</i> , 2021 , e2105851	24	2
40	Toward the commercialization of chemical vapor deposition graphene films. <i>Applied Physics Reviews</i> , 2021 , 8, 041306	17.3	2
39	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. <i>Nature Communications</i> , 2021 , 12, 2391	17.4	31
38	Tunable Pore Size from Sub-Nanometer to a Few Nanometers in Large-Area Graphene Nanoporous Atomically Thin Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
37	Theoretical calculation boosting the chemical vapor deposition growth of graphene film. <i>APL Materials</i> , 2021 , 9, 060906	5.7	0
36	Preparation of single-crystal metal substrates for the growth of high-quality two-dimensional materials. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 182-200	6.8	7
35	Chemical vapour deposition. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		80
34	Decimeter-Scale Atomically Thin Graphene Membranes for Gas-Liquid Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10328-10335	9.5	4
33	Optical detection of the susceptibility tensor in two-dimensional crystals. <i>Communications Physics</i> , 2021 , 4,	5.4	7
32	Toward Epitaxial Growth of Misorientation-Free Graphene on Cu(111) Foils.. <i>ACS Nano</i> , 2021 ,	16.7	4
31	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17214-17218	16.4	16
30	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie</i> , 2020 , 132, 17367-17371	3.6	1
29	Large Single-Crystal Cu Foils with High-Index Facets by Strain-Engineered Anomalous Grain Growth. <i>Advanced Materials</i> , 2020 , 32, e2002034	24	28
28	Realization and transport investigation of a single layer-twisted bilayer graphene junction. <i>Carbon</i> , 2020 , 163, 105-112	10.4	2
27	Robust ultraclean atomically thin membranes for atomic-resolution electron microscopy. <i>Nature Communications</i> , 2020 , 11, 541	17.4	21
26	Roles of Transition Metal Substrates in Graphene Chemical Vapor Deposition Growth. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020 , 2012006-0	3.8	2

25	Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. <i>Small</i> , 2020 , 16, e1902844	11	13
24	Rational Design of Binary Alloys for Catalytic Growth of Graphene via Chemical Vapor Deposition. <i>Catalysts</i> , 2020 , 10, 1305	4	4
23	New Growth Frontier: Superclean Graphene. <i>ACS Nano</i> , 2020 , 14, 10796-10803	16.7	19
22	Controlled Growth of Single-Crystal Graphene Films. <i>Advanced Materials</i> , 2020 , 32, e1903266	24	58
21	A Force-Engineered Lint Roller for Superclean Graphene. <i>Advanced Materials</i> , 2019 , 31, e1902978	24	31
20	Towards super-clean graphene. <i>Nature Communications</i> , 2019 , 10, 1912	17.4	89
19	Copper-Containing Carbon Feedstock for Growing Superclean Graphene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7670-7674	16.4	30
18	Scalable and ultrafast epitaxial growth of single-crystal graphene wafers for electrically tunable liquid-crystal microlens arrays. <i>Science Bulletin</i> , 2019 , 64, 659-668	10.6	50
17	Exploitation of Bi ₂ O ₂ Se/graphene van der Waals heterojunction for creating efficient photodetectors and short-channel field-effect transistors. <i>Information Materials</i> , 2019 , 1, 390-395	23.1	24
16	Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. <i>Science Advances</i> , 2019 , 5, eaaw8337	14.3	39
15	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14446-14451	16.4	43
14	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019 , 131, 14588-14593	3.6	2
13	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58,	16.4	1
12	Low-Temperature Heteroepitaxy of 2D PbI ₂ /Graphene for Large-Area Flexible Photodetectors. <i>Advanced Materials</i> , 2018 , 30, e1803194	24	61
11	Low-Temperature and Rapid Growth of Large Single-Crystalline Graphene with Ethane. <i>Small</i> , 2018 , 14, 1702916	11	30
10	Flexible Photodetectors: Low-Temperature Heteroepitaxy of 2D PbI ₂ /Graphene for Large-Area Flexible Photodetectors (Adv. Mater. 36/2018). <i>Advanced Materials</i> , 2018 , 30, 1870271	24	2
9	Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells. <i>Advanced Materials</i> , 2017 , 29, 1700639	24	50
8	Single Crystals: Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells (Adv. Mater. 26/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1

7	Visualizing fast growth of large single-crystalline graphene by tunable isotopic carbon source. <i>Nano Research</i> , 2017 , 10, 355-363	10	24
6	Surface Monocrystallization of Copper Foil for Fast Growth of Large Single-Crystal Graphene under Free Molecular Flow. <i>Advanced Materials</i> , 2016 , 28, 8968-8974	24	110
5	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. <i>Advanced Materials</i> , 2016 , 28, 4671-7	24	52
4	Two-Dimensional (CHNH)PbBr Perovskite Crystals for High-Performance Photodetector. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16612-16615	16.4	273
3	Building Large-Domain Twisted Bilayer Graphene with van Hove Singularity. <i>ACS Nano</i> , 2016 , 10, 6725-306.7	40	
2	The role of Cu crystallographic orientations towards growing superclean graphene on meter-sized scale. <i>Nano Research</i> , 1	10	0
1	Toward batch synthesis of high-quality graphene by cold-wall chemical vapor deposition approach. <i>Nano Research</i> , 1	10	0