

Li Lin

List of Publications by Year in descending order

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92
papers

5,402
citations

94433

37
h-index

82547

72
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94
all docs

94
docs citations

94
times ranked

8118
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper acetate-facilitated transfer-free growth of high-quality graphene for hydrovoltaic generators. National Science Review, 2022, 9, .	9.5	8
2	Transfer-Enabled Fabrication of Graphene Wrinkle Arrays for Epitaxial Growth of AlN Films. Advanced Materials, 2022, 34, e2105851.	21.0	15
3	The role of Cu crystallographic orientations towards growing superclean graphene on meter-sized scale. Nano Research, 2022, 15, 3775-3780.	10.4	3
4	Intrinsic Wettability in Pristine Graphene. Advanced Materials, 2022, 34, e2103620.	21.0	28
5	Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). Advanced Materials, 2022, 34, .	21.0	5
6	Toward Epitaxial Growth of Misorientation-Free Graphene on Cu(111) Foils. ACS Nano, 2022, 16, 285-294.	14.6	40
7	Slip-Enabled Guided Growth of Graphene. Advanced Materials, 2022, 34, e2201188.	21.0	7
8	Toward batch synthesis of high-quality graphene by cold-wall chemical vapor deposition approach. Nano Research, 2022, 15, 9683-9688.	10.4	6
9	Doping of Graphene Films: Open the way to Applications in Electronics and Optoelectronics. Advanced Functional Materials, 2022, 32, .	14.9	21
10	Printable two-dimensional superconducting monolayers. Nature Materials, 2021, 20, 181-187.	27.5	102
11	Graphene Transfer: Paving the Road for Applications of Chemical Vapor Deposition Graphene. Small, 2021, 17, e2007600.	10.0	68
12	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. Nature Communications, 2021, 12, 2391.	12.8	92
13	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	4.9	269
14	Toward the commercialization of chemical vapor deposition graphene films. Applied Physics Reviews, 2021, 8, .	11.3	19
15	Hydrophilic, Clean Graphene for Cell Culture and Cryo-EM Imaging. Nano Letters, 2021, 21, 9587-9593.	9.1	7
16	Direct growth of wafer-scale highly oriented graphene on sapphire. Science Advances, 2021, 7, eabk0115.	10.3	43
17	Controlled Growth of Single-Crystal Graphene Films. Advanced Materials, 2020, 32, e1903266.	21.0	95
18	Graphene Acoustic Phonon-Mediated Pseudo-Landau Levels Tailoring Probed by Scanning Tunneling Spectroscopy. Small, 2020, 16, 1905202.	10.0	2

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19	New Growth Frontier: Superclean Graphene. ACS Nano, 2020, 14, 10796-10803.	14.6	41
20	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. Angewandte Chemie - International Edition, 2020, 59, 17214-17218.	13.8	28
21	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. Angewandte Chemie, 2020, 132, 17367-17371.	2.0	4
22	Large Single-Crystal Cu Foils with High-Index Facets by Strain-Engineered Anomalous Grain Growth. Advanced Materials, 2020, 32, e2002034.	21.0	45
23	Realization and transport investigation of a single layer-twisted bilayer graphene junction. Carbon, 2020, 163, 105-112.	10.3	4
24	Transport signatures of relativistic quantum scars in a graphene cavity. Physical Review B, 2020, 101, .	3.2	3
25	Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. Science Advances, 2019, 5, eaaw8337.	10.3	77
26	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie - International Edition, 2019, 58, 14446-14451.	13.8	64
27	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie, 2019, 131, 14588-14593.	2.0	5
28	Frontispiz: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie, 2019, 131, .	2.0	0
29	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. Angewandte Chemie - International Edition, 2019, 58, .	13.8	2
30	A Force-Engineered Lint Roller for Superclean Graphene. Advanced Materials, 2019, 31, e1902978.	21.0	40
31	Growth of 12-inch uniform monolayer graphene film on molten glass and its application in PbI ₂ -based photodetector. Nano Research, 2019, 12, 1888-1893.	10.4	16
32	Synthesis challenges for graphene industry. Nature Materials, 2019, 18, 520-524.	27.5	389
33	Towards super-clean graphene. Nature Communications, 2019, 10, 1912.	12.8	133
34	Copper-Containing Carbon Feedstock for Growing Superclean Graphene. Journal of the American Chemical Society, 2019, 141, 7670-7674.	13.7	47
35	Coulomb-dominated oscillations in a graphene quantum Hall Fabry-Pérot interferometer. Chinese Physics B, 2019, 28, 127203.	1.4	2
36	Composite super-moiré lattices in double-aligned graphene heterostructures. Science Advances, 2019, 5, eaay8897.	10.3	74

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37	Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. <i>Advanced Materials</i> , 2018, 30, e1706076.	21.0	86
38	Charge transport and electron-hole asymmetry in low-mobility graphene/hexagonal boron nitride heterostructures. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	3
39	Cerasomal Lovastatin Nanohybrids for Efficient Inhibition of Triple-Negative Breast Cancer Stem Cells To Improve Therapeutic Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7022-7030.	8.0	23
40	Low-field magnetotransport in graphene cavity devices. <i>Nanotechnology</i> , 2018, 29, 205707.	2.6	1
41	Low-temperature and Rapid Growth of Large Single-Crystalline Graphene with Ethane. <i>Small</i> , 2018, 14, 1702916.	10.0	39
42	Ultrafast Broadband Charge Collection from Clean Graphene/CH ₃ NH ₃ Pb ₃ Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 14952-14957.	13.7	29
43	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. <i>Chemical Reviews</i> , 2018, 118, 9281-9343.	47.7	260
44	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.	21.0	4
45	Low-temperature Heteroepitaxy of 2D PbI ₂ /Graphene for Large-Area Flexible Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1803194.	21.0	93
46	Dirac-source field-effect transistors as energy-efficient, high-performance electronic switches. <i>Science</i> , 2018, 361, 387-392.	12.6	226
47	Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells. <i>Advanced Materials</i> , 2017, 29, 1700639.	21.0	80
48	Anisotropy in Shape and Ligand-Conjugation of Hybrid Nanoparticulates Manipulates the Mode of Bio-Nano Interaction and Its Outcome. <i>Advanced Functional Materials</i> , 2017, 27, 1700406.	14.9	16
49	Electron-Hole Symmetry Breaking in Charge Transport in Nitrogen-Doped Graphene. <i>ACS Nano</i> , 2017, 11, 4641-4650.	14.6	46
50	Rapid growth of angle-confined large-domain graphene bicrystals. <i>Nano Research</i> , 2017, 10, 1189-1199.	10.4	9
51	Plasmonic hot electron tunneling photodetection in vertical Au-graphene hybrid nanostructures. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600148.	8.7	61
52	Graphene-Armored Aluminum Foil with Enhanced Anticorrosion Performance as Current Collectors for Lithium-Ion Battery. <i>Advanced Materials</i> , 2017, 29, 1703882.	21.0	85
53	Chemical Intercalation of Topological Insulator Grid Nanostructures for High-Performance Transparent Electrodes. <i>Advanced Materials</i> , 2017, 29, 1703424.	21.0	21
54	CVD Synthesis of Graphene. , 2017, , 19-56.		9

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55	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017, 3, e1603231.	10.3	35
56	One-Step Growth of Graphene/Carbon Nanotube Hybrid Films on Soda-Lime Glass for Transparent Conducting Applications. <i>Advanced Electronic Materials</i> , 2017, 3, 1700212.	5.1	17
57	Single Crystals: Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells (<i>Adv. Mater.</i> 26/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	2
58	Doxorubicin and Indocyanine Green Loaded Hybrid Bicelles for Fluorescence Imaging Guided Synergetic Chemo/Photothermal Therapy. <i>Bioconjugate Chemistry</i> , 2017, 28, 2410-2419.	3.6	47
59	Shape Anisotropy: Anisotropy in Shape and Ligand-Conjugation of Hybrid Nanoparticulates Manipulates the Mode of Bio-Nano Interaction and Its Outcome (<i>Adv. Funct. Mater.</i> 31/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1
60	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. <i>Science Bulletin</i> , 2017, 62, 1074-1080.	9.0	454
61	Fast Growth and Broad Applications of 25-inch Uniform Graphene Glass. <i>Advanced Materials</i> , 2017, 29, 1603428.	21.0	90
62	Visualizing fast growth of large single-crystalline graphene by tunable isotopic carbon source. <i>Nano Research</i> , 2017, 10, 355-363.	10.4	30
63	Probe of local impurity states by bend resistance measurements in graphene cross junctions. <i>Nanotechnology</i> , 2016, 27, 245204.	2.6	2
64	Tuning Chemical Potential Difference across Alternately Doped Graphene Junctions for High-Efficiency Photodetection. <i>Nano Letters</i> , 2016, 16, 4094-4101.	9.1	34
65	Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbBr ₄ Perovskite Crystals for High-Performance Photodetector. <i>Journal of the American Chemical Society</i> , 2016, 138, 16612-16615.	13.7	341
66	Building Large-Domain Twisted Bilayer Graphene with van Hove Singularity. <i>ACS Nano</i> , 2016, 10, 6725-6730.	14.6	53
67	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.	21.0	128
68	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. <i>Nano Research</i> , 2016, 9, 3048-3055.	10.4	32
69	Chemically Engineered Substrates for Patternable Growth of Two-Dimensional Chalcogenide Crystals. <i>ACS Nano</i> , 2016, 10, 10317-10323.	14.6	16
70	Selectively enhanced photocurrent generation in twisted bilayer graphene with van Hove singularity. <i>Nature Communications</i> , 2016, 7, 10699.	12.8	136
71	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. <i>Advanced Materials</i> , 2016, 28, 4671-4677.	21.0	69
72	Surface Engineering of Copper Foils for Growing Centimeter-Sized Single-Crystalline Graphene. <i>ACS Nano</i> , 2016, 10, 2922-2929.	14.6	89

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73	On-the-spot growth. <i>Nature Materials</i> , 2016, 15, 9-10.	27.5	28
74	2D Hybrid Nanostructured Dirac Materials for Broadband Transparent Electrodes. <i>Advanced Materials</i> , 2015, 27, 4315-4321.	21.0	8
75	Roll-to-Roll Encapsulation of Metal Nanowires between Graphene and Plastic Substrate for High-Performance Flexible Transparent Electrodes. <i>Nano Letters</i> , 2015, 15, 4206-4213.	9.1	410
76	Building graphene p-n junctions for next-generation photodetection. <i>Nano Today</i> , 2015, 10, 701-716.	11.9	45
77	Monodisperse Copper Chalcogenide Nanocrystals: Controllable Synthesis and the Pinning of Plasmonic Resonance Absorption. <i>Journal of the American Chemical Society</i> , 2015, 137, 12006-12012.	13.7	61
78	Epitaxial Growth of Asymmetrically Doped Bilayer Graphene for Photocurrent Generation. <i>Small</i> , 2014, 10, 2245-2250.	10.0	6
79	Plasmon-Enhanced Photothermoelectric Conversion in Chemical Vapor Deposited Graphene p-n Junctions. <i>Journal of the American Chemical Society</i> , 2013, 135, 10926-10929.	13.7	61
80	An intermediate-band-assisted avalanche multiplication in InAs/InGaAs quantum dots-in-well infrared photodetector. <i>Applied Physics Letters</i> , 2011, 98, 073504.	3.3	3
81	Formation of Ag Nanoparticle-Doped Foam-like Polymer Films at the Liquid-Liquid Interface. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11113-11118.	2.6	25
82	Sequential coupling transport for the dark current of quantum dots-in-well infrared photodetectors. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	28
83	Studies of synthesizing behaviors and superconductivity of sol-gel YBa ₂ Cu ₃ O _{7-x} samples in flowing oxygen atmosphere. <i>Frontiers of Physics in China</i> , 2008, 3, 55-60.	1.0	1
84	State of Doped Phosphorus and Its Influence on the Physicochemical and Photocatalytic Properties of P-doped Titania. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15502-15509.	3.1	141
85	Effect of Pore Size Distribution of Carbon-Covered Alumina on the Preparation of Submicrometer α -Alumina Powders. <i>Journal of the American Ceramic Society</i> , 2007, 90, 402-406.	3.8	5
86	Adsorption and porosity properties of carbon-covered alumina surfaces. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 88, 601-606.	3.6	13
87	Effect of carbon content on photocatalytic activity of C/TiO ₂ composite. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 64-69.	0.4	5
88	Efficient Preparation of Submicrometer α -Alumina Powders by Calcining Carbon-Covered Alumina. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060623005134006-???	3.8	3
89	Novel Pd/TiO ₂ -Al ₂ O ₃ Catalysts for Methane Total Oxidation at Low Temperature and Their ¹⁸ O-Isotope Exchange Behavior. <i>Chinese Journal of Chemistry</i> , 2005, 23, 1333-1338.	4.9	3
90	Uniformly Carbon-Covered Alumina and Its Surface Characteristics. <i>Langmuir</i> , 2005, 21, 5040-5046.	3.5	62

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91	PREPARATION OF SUPERCONDUCTING Biâ€“Pbâ€“Srâ€“Caâ€“Cuâ€“O FILMS BY DC MAGNETRON SPUTTERING METHOD. Modern Physics Letters B, 1990, 04, 847-853.	1.9	0
92	Radiant-energy detection by?Ba?Cu?O thin films. Journal of Infrared, Millimeter and Terahertz Waves, 1989, 10, 445-456.	0.6	1