

# Lin Gan

## List of Publications by Citations

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103  
papers

6,394  
citations

49  
h-index

78  
g-index

108  
ext. papers

7,386  
ext. citations

12  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
103	Ultrathin SnSe <sub>2</sub> Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors. <i>Advanced Materials</i> , <b>2015</b> , 27, 8035-41	24	369
102	Two-dimensional layered nanomaterials for gas-sensing applications. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 433-451	6.8	248
101	Large-Size Growth of Ultrathin SnS <sub>2</sub> Nanosheets and High Performance for Phototransistors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4405-4413	15.6	216
100	Turning off hydrogen to realize seeded growth of subcentimeter single-crystal graphene grains on copper. <i>ACS Nano</i> , <b>2013</b> , 7, 9480-8	16.7	200
99	Chemical Vapor Deposition Synthesis of Ultrathin Hexagonal ReSe Flakes for Anisotropic Raman Property and Optoelectronic Application. <i>Advanced Materials</i> , <b>2016</b> , 28, 8296-8301	24	165
98	Large-Area Bilayer ReS <sub>2</sub> Film/Multilayer ReS <sub>2</sub> Flakes Synthesized by Chemical Vapor Deposition for High Performance Photodetectors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4551-4560	15.6	162
97	Understanding charge transfer at PbS-decorated graphene surfaces toward a tunable photosensor. <i>Advanced Materials</i> , <b>2012</b> , 24, 2715-20	24	158
96	A Fully Transparent and Flexible Ultraviolet-Visible Photodetector Based on Controlled Electrospun ZnO-CdO Heterojunction Nanofiber Arrays. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5885-5894	15.6	146
95	Vertical heterostructures based on SnSe <sub>2</sub> /MoS <sub>2</sub> for high performance photodetectors. <i>2D Materials</i> , <b>2017</b> , 4, 025048	5.9	143
94	Layered phosphorus-like GeP <sub>5</sub> : a promising anode candidate with high initial coulombic efficiency and large capacity for lithium ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3629-3636	35.4	143
93	Photonic Potentiation and Electric Habituation in Ultrathin Memristive Synapses Based on Monolayer MoS <sub>2</sub> . <i>Small</i> , <b>2018</b> , 14, e1800079	11	141
92	Booming Development of Group IV-VI Semiconductors: Fresh Blood of 2D Family. <i>Advanced Science</i> , <b>2016</b> , 3, 1600177	13.6	140
91	Controlled Synthesis of Ultrathin 2D In <sub>2</sub> S <sub>3</sub> with Broadband Photoresponse by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702448	15.6	139
90	High-Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowire. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 704-712	15.6	136
89	2D layered group IIIA metal chalcogenides: synthesis, properties and applications in electronics and optoelectronics. <i>CrystEngComm</i> , <b>2016</b> , 18, 3968-3984	3.3	132
88	Van der Waals Coupled Organic Molecules with Monolayer MoS <sub>2</sub> for Fast Response Photodetectors with Gate-Tunable Responsivity. <i>ACS Nano</i> , <b>2018</b> , 12, 4062-4073	16.7	120
87	Direct optical characterization of graphene growth and domains on growth substrates. <i>Scientific Reports</i> , <b>2012</b> , 2, 707	4.9	120

86	Building high-throughput molecular junctions using indented graphene point contacts. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 12228-32	16.4	115
85	An Enhanced UV-Vis-NIR and Flexible Photodetector Based on Electrospun ZnO Nanowire Array/PbS Quantum Dots Film Heterostructure. <i>Advanced Science</i> , <b>2017</b> , 4, 1600316	13.6	113
84	Self-powered high performance photodetectors based on CdSe nanobelt/graphene Schottky junctions. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2863		107
83	Decorating Perovskite Quantum Dots in TiO <sub>2</sub> Nanotubes Array for Broadband Response Photodetector. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703115	15.6	104
82	CVD growth of large area smooth-edged graphene nanomesh by nanosphere lithography. <i>Scientific Reports</i> , <b>2013</b> , 3, 1238	4.9	102
81	Space-Confined Chemical Vapor Deposition Synthesis of Ultrathin HfS <sub>2</sub> Flakes for Optoelectronic Application. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702918	15.6	90
80	High performance near-infrared photodetectors based on ultrathin SnS nanobelts grown via physical vapor deposition. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2111-2116	7.1	86
79	Chemical functionalization of single-walled carbon nanotube field-effect transistors as switches and sensors. <i>Coordination Chemistry Reviews</i> , <b>2010</b> , 254, 1101-1116	23.2	86
78	Ternary Ta <sub>2</sub> NiSe <sub>5</sub> Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8281-8289	15.6	82
77	Highly reversible sodium storage in a GeP <sub>5</sub> /C composite anode with large capacity and low voltage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4413-4420	13	77
76	Interlayer Coupling Induced Infrared Response in WS <sub>2</sub> /MoS <sub>2</sub> Heterostructures Enhanced by Surface Plasmon Resonance. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800339	15.6	75
75	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2390-2394	16.4	72
74	P-GaSe/N-MoS Vertical Heterostructures Synthesized by van der Waals Epitaxy for Photoresponse Modulation. <i>Small</i> , <b>2018</b> , 14, 1702731	11	71
73	High-performance Langmuir-Blodgett monolayer transistors with high responsivity. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6319-23	16.4	71
72	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14893-14897	16.4	68
71	Scalable production of self-supported WS <sub>2</sub> /CNFs by electrospinning as the anode for high-performance lithium-ion batteries. <i>Science Bulletin</i> , <b>2016</b> , 61, 227-235	10.6	68
70	A simple and scalable graphene patterning method and its application in CdSe nanobelt/graphene Schottky junction solar cells. <i>Nanoscale</i> , <b>2011</b> , 3, 1477-81	7.7	68
69	Ultrathin Non-van der Waals Magnetic Rhombohedral Cr <sub>2</sub> S <sub>3</sub> : Space-Confined Chemical Vapor Deposition Synthesis and Raman Scattering Investigation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805880	15.6	68

68	Photoactive gate dielectrics. <i>Advanced Materials</i> , <b>2010</b> , 22, 3282-7	24	67
67	Stacking-mode confined growth of 2H-MoTe <sub>2</sub> /MoS <sub>2</sub> bilayer heterostructures for UV-Vis/IR photodetectors. <i>Nano Energy</i> , <b>2018</b> , 49, 200-208	17.1	65
66	Achieving highly uniform two-dimensional PbI <sub>2</sub> flakes for photodetectors via space confined physical vapor deposition. <i>Science Bulletin</i> , <b>2017</b> , 62, 1654-1662	10.6	65
65	Theoretical Investigation of the Intercalation Chemistry of Lithium/Sodium Ions in Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13599-13605	3.8	62
64	Achieving Uniform Monolayer Transition Metal Dichalcogenides Film on Silicon Wafer via Silanization Treatment: A Typical Study on WS <sub>2</sub> . <i>Advanced Materials</i> , <b>2017</b> , 29, 1603550	24	60
63	Ultrathin Single-Crystalline Boron Nanosheets for Enhanced Electro-Optical Performances. <i>Advanced Science</i> , <b>2015</b> , 2, 1500023	13.6	60
62	Ultrasensitive water-processed monolayer photodetectors. <i>Chemical Science</i> , <b>2011</b> , 2, 796	9.4	60
61	Self-supported Zn <sub>3</sub> P <sub>2</sub> nanowire arrays grafted on carbon fabrics as an advanced integrated anode for flexible lithium ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 8666-72	7.7	57
60	Enhancing the performance of Li <sub>3</sub> VO <sub>4</sub> by combining nanotechnology and surface carbon coating for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11253-11260	13	56
59	TiO <sub>2</sub> -decorated graphenes as efficient photoswitches with high oxygen sensitivity. <i>Chemical Science</i> , <b>2011</b> , 2, 1860	9.4	56
58	Submillimeter and lead-free Cs <sub>3</sub> Sb <sub>2</sub> Br <sub>9</sub> perovskite nanoflakes: inverse temperature crystallization growth and application for ultrasensitive photodetectors. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1372-1379	10.8	51
57	Graphene-templated growth of hollow Ni <sub>3</sub> S <sub>2</sub> nanoparticles with enhanced pseudocapacitive performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19214-19220	13	50
56	Ternary Oxide Nanocrystals: Universal Laser-Hydrothermal Synthesis, Optoelectronic and Electrochemical Applications. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5051-5060	15.6	50
55	Strategies on Phase Control in Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802473	15.6	49
54	Multicolor graphene nanoribbon/semiconductor nanowire heterojunction light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11760		49
53	Nonlayered Two-Dimensional Defective Semiconductor EGaS toward Broadband Photodetection. <i>ACS Nano</i> , <b>2019</b> , 13, 6297-6307	16.7	48
52	Space-confined vapor deposition synthesis of two dimensional materials. <i>Nano Research</i> , <b>2018</b> , 11, 2909-2931	29.1	47
51	Space-Confined Synthesis of 2D All-Inorganic CsPbI <sub>3</sub> Perovskite Nanosheets for Multiphoton-Pumped Lasing. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800879	8.1	46

50	Evolution of the Raman spectrum of graphene grown on copper upon oxidation of the substrate. <i>Nano Research</i> , <b>2014</b> , 7, 1613-1622	10	45
49	Rhenium dichalcogenides (ReX <sub>2</sub> , X = S or Se): an emerging class of TMDs family. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1917-1932	7.8	42
48	Narrowband spectrally selective near-infrared photodetector based on up-conversion nanoparticles used in a 2D hybrid device. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1591-1595	7.1	40
47	Inversion Symmetry Broken 2D 3R-MoTe <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800785	15.6	40
46	Detaching graphene from copper substrate by oxidation-assisted water intercalation. <i>Carbon</i> , <b>2016</b> , 98, 138-143	10.4	40
45	One-pot synthesis of Zn-doped SnO <sub>2</sub> nanosheet-based hierarchical architectures as a glycol gas sensor and photocatalyst. <i>CrystEngComm</i> , <b>2015</b> , 17, 4394-4401	3.3	38
44	Solution-crystallized organic semiconductors with high carrier mobility and air stability. <i>Advanced Materials</i> , <b>2012</b> , 24, 5576-80, 5518	24	32
43	Electrochemistry: an efficient way to chemically modify individual monolayers of graphene. <i>Small</i> , <b>2012</b> , 8, 1326-30	11	30
42	High-Performance Langmuir-Blodgett Monolayer Transistors with High Responsivity. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 6463-6467	3.6	30
41	Electrospun nanowire arrays for electronics and optoelectronics. <i>Science China Materials</i> , <b>2016</b> , 59, 200-216	21	29
40	In situ fabrication and investigation of nanostructures and nanodevices with a microscope. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 2694-713	58.5	28
39	Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12394-12398	3.6	26
38	Synthesis of BiS-Au Dumbbell Heteronanostructures with Enhanced Photocatalytic and Photoresponse Properties. <i>Langmuir</i> , <b>2016</b> , 32, 11639-11645	4	25
37	Phase-Engineered Synthesis of Ultrathin Hexagonal and Monoclinic GaTe Flakes and Phase Transition Study. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901012	15.6	24
36	Phase-Engineered Growth of Ultrathin InSe Flakes by Chemical Vapor Deposition for High-Efficiency Second Harmonic Generation. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15678-15684	4.8	24
35	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2430-2434	3.6	23
34	Stacking-Mode-Induced Reactivity Enhancement for Twisted Bilayer Graphene. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1034-1039	9.6	23
33	Quasi-one-dimensional graphene superlattices formed on high-index surfaces. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	21

32	Temperature Difference Triggering Controlled Growth of All-Inorganic Perovskite Nanowire Arrays in Air. <i>Small</i> , <b>2018</b> , 14, e1803010	11	21
31	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15089-15093	3.6	20
30	Geometry-induced high performance ultraviolet photodetectors in kinked SnO <sub>2</sub> nanowires. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8300-8306	7.1	20
29	Tuning the graphene work function by uniaxial strain. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 043106	3.4	19
28	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5826-5835	16.4	19
27	Geometry dependent photoconductivity of In <sub>2</sub> S <sub>3</sub> kinks synthesized by kinetically controlled thermal deposition. <i>Nano Research</i> , <b>2016</b> , 9, 3848-3857	10	19
26	Grain size control in the fabrication of large single-crystal bilayer graphene structures. <i>Nanoscale</i> , <b>2015</b> , 7, 2391-9	7.7	17
25	Graphene Amplification by Continued Growth on Seed Edges. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4137-4143	3.6	17
24	Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1269-1276	6.4	17
23	GaN epitaxial layers grown on multilayer graphene by MOCVD. <i>AIP Advances</i> , <b>2018</b> , 8, 045105	1.5	15
22	Understanding the Growth Mechanism of GaN Epitaxial Layers on Mechanically Exfoliated Graphite. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 130	5	14
21	Tuning the properties of graphene using a reversible gas-phase reaction. <i>NPG Asia Materials</i> , <b>2012</b> , 4, e31-e31	10.3	14
20	Wrapping SbTe with a Graphite Layer toward High Volumetric Energy and Long Cycle Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16264-16275	9.5	13
19	New Approach to Unveiling Individual Atomic Layers of 2D Materials and Their Heterostructures. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1718-1728	9.6	13
18	Novel optoelectronic devices based on single semiconductor nanowires (nanobelts). <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 218	5	13
17	Facilitating All-Inorganic Halide Perovskites Fabrication in Confined-Space Deposition. <i>Small Methods</i> , <b>2020</b> , 4, 2000102	12.8	10
16	Polar-surface-driven growth of ZnS microsprings with novel optoelectronic properties. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e213-e213	10.3	9
15	Enhancement of MoTe <sub>2</sub> near-infrared absorption with gold hollow nanorods for photodetection. <i>Nano Research</i> , <b>2020</b> , 13, 1636-1643	10	9

14	Towards wafer-size strictly monolayer graphene on copper via cyclic atmospheric chemical vapor deposition. <i>Carbon</i> , <b>2016</b> , 110, 384-389	10.4	9
13	Interfacial thermal resistance across graphene/Al <sub>2</sub> O <sub>3</sub> and graphene/metal interfaces and post-annealing effects. <i>Carbon</i> , <b>2017</b> , 123, 18-25	10.4	9
12	Revealing interface-assisted charge-transfer mechanisms by using silicon nanowires as local probes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3369-73	16.4	9
11	The mechanism of the modulation of electronic anisotropy in two-dimensional ReS. <i>Nanoscale</i> , <b>2020</b> , 12, 8915-8921	7.7	7
10	Photodetectors: Ultrathin SnSe <sub>2</sub> Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors (Adv. Mater. 48/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 8119-8119	24	6
9	Controlled removal of monolayers for bilayer graphene preparation and visualization. <i>RSC Advances</i> , <b>2015</b> , 5, 25471-25476	3.7	6
8	Breakdown of self-limiting growth on oxidized copper substrates: a facile method for large-size high-quality bi- and trilayer graphene synthesis. <i>RSC Advances</i> , <b>2015</b> , 5, 56293-56298	3.7	5
7	Strain-sensitive ferromagnetic two-dimensional Cr <sub>2</sub> Te <sub>3</sub> . <i>Nano Research</i> , 1	10	5
6	In situ formed nanoparticle-assisted growth of large-size single crystalline h-BN on copper. <i>Nanoscale</i> , <b>2018</b> , 10, 17865-17872	7.7	5
5	Electrical Characteristics: High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowire (Adv. Funct. Mater. 5/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 804-804	15.6	3
4	Revealing Interface-Assisted Charge-Transfer Mechanisms by Using Silicon Nanowires as Local Probes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3453-3457	3.6	2
3	Spread of in-plane anisotropy in CsPbBr <sub>3</sub> /ReS <sub>2</sub> heterostructures by proximity effect. <i>Journal of Materials Chemistry C</i> ,	7.1	2
2	Photodetectors: Interlayer Coupling Induced Infrared Response in WS <sub>2</sub> /MoS <sub>2</sub> Heterostructures Enhanced by Surface Plasmon Resonance (Adv. Funct. Mater. 22/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870151	15.6	
1	Organic Semiconductors: Solution-Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability (Adv. Mater. 41/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 5518-5518	24	