

Lin Gan

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.

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	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5826-5835	16.4	19
102	Enhancement of MoTe ₂ near-infrared absorption with gold hollow nanorods for photodetection. <i>Nano Research</i> , 2020 , 13, 1636-1643	10	9
101	The mechanism of the modulation of electronic anisotropy in two-dimensional ReS ₂ . <i>Nanoscale</i> , 2020 , 12, 8915-8921	7.7	7
100	Wrapping SbTe with a Graphite Layer toward High Volumetric Energy and Long Cycle Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16264-16275	9.5	13
99	Facilitating All-Inorganic Halide Perovskites Fabrication in Confined-Space Deposition. <i>Small Methods</i> , 2020 , 4, 2000102	12.8	10
98	Nonlayered Two-Dimensional Defective Semiconductor β -GaS toward Broadband Photodetection. <i>ACS Nano</i> , 2019 , 13, 6297-6307	16.7	48
97	Phase-Engineered Synthesis of Ultrathin Hexagonal and Monoclinic GaTe Flakes and Phase Transition Study. <i>Advanced Functional Materials</i> , 2019 , 29, 1901012	15.6	24
96	Submillimeter and lead-free Cs ₃ Sb ₂ Br ₉ perovskite nanoflakes: inverse temperature crystallization growth and application for ultrasensitive photodetectors. <i>Nanoscale Horizons</i> , 2019 , 4, 1372-1379	10.8	51
95	Ultrathin Non-van der Waals Magnetic Rhombohedral Cr ₂ S ₃ : Space-Confined Chemical Vapor Deposition Synthesis and Raman Scattering Investigation. <i>Advanced Functional Materials</i> , 2019 , 29, 1805880	15.6	68
94	Photonic Potentiation and Electric Habituation in Ultrathin Memristive Synapses Based on Monolayer MoS ₂ . <i>Small</i> , 2018 , 14, e1800079	11	141
93	Stacking-mode confined growth of 2H-MoTe ₂ /MoS ₂ bilayer heterostructures for UV-Vis-IR photodetectors. <i>Nano Energy</i> , 2018 , 49, 200-208	17.1	65
92	Inversion Symmetry Broken 2D 3R-MoTe ₂ . <i>Advanced Functional Materials</i> , 2018 , 28, 1800785	15.6	40
91	GaN epitaxial layers grown on multilayer graphene by MOCVD. <i>AIP Advances</i> , 2018 , 8, 045105	1.5	15
90	Interlayer Coupling Induced Infrared Response in WS ₂ /MoS ₂ Heterostructures Enhanced by Surface Plasmon Resonance. <i>Advanced Functional Materials</i> , 2018 , 28, 1800339	15.6	75
89	Van der Waals Coupled Organic Molecules with Monolayer MoS ₂ for Fast Response Photodetectors with Gate-Tunable Responsivity. <i>ACS Nano</i> , 2018 , 12, 4062-4073	16.7	120
88	New Approach to Unveiling Individual Atomic Layers of 2D Materials and Their Heterostructures. <i>Chemistry of Materials</i> , 2018 , 30, 1718-1728	9.6	13
87	Space-confined vapor deposition synthesis of two dimensional materials. <i>Nano Research</i> , 2018 , 11, 2909-2931	12.9	47

86	P-GaSe/N-MoS Vertical Heterostructures Synthesized by van der Waals Epitaxy for Photoresponse Modulation. <i>Small</i> , 2018 , 14, 1702731	11	71
85	Understanding the Growth Mechanism of GaN Epitaxial Layers on Mechanically Exfoliated Graphite. <i>Nanoscale Research Letters</i> , 2018 , 13, 130	5	14
84	Phase-Engineered Growth of Ultrathin InSe Flakes by Chemical Vapor Deposition for High-Efficiency Second Harmonic Generation. <i>Chemistry - A European Journal</i> , 2018 , 24, 15678-15684	4.8	24
83	Strategies on Phase Control in Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2018 , 28, 1802473	15.6	49
82	Photodetectors: Interlayer Coupling Induced Infrared Response in WS ₂ /MoS ₂ Heterostructures Enhanced by Surface Plasmon Resonance (Adv. Funct. Mater. 22/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870151	15.6	
81	Space-Confined Synthesis of 2D All-Inorganic CsPbI ₃ Perovskite Nanosheets for Multiphoton-Pumped Lasing. <i>Advanced Optical Materials</i> , 2018 , 6, 1800879	8.1	46
80	In situ formed nanoparticle-assisted growth of large-size single crystalline h-BN on copper. <i>Nanoscale</i> , 2018 , 10, 17865-17872	7.7	5
79	Temperature Difference Triggering Controlled Growth of All-Inorganic Perovskite Nanowire Arrays in Air. <i>Small</i> , 2018 , 14, e1803010	11	21
78	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , 2017 , 129, 2430-2434	3.6	23
77	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2390-2394	16.4	72
76	Highly reversible sodium storage in a GeP ₅ /C composite anode with large capacity and low voltage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4413-4420	13	77
75	Narrowband spectrally selective near-infrared photodetector based on up-conversion nanoparticles used in a 2D hybrid device. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1591-1595	7.1	40
74	Rhenium dichalcogenides (ReX ₂ , X = S or Se): an emerging class of TMDs family. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1917-1932	7.8	42
73	Theoretical Investigation of the Intercalation Chemistry of Lithium/Sodium Ions in Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13599-13605	3.8	62
72	Vertical heterostructures based on SnSe ₂ /MoS ₂ for high performance photodetectors. <i>2D Materials</i> , 2017 , 4, 025048	5.9	143
71	An Enhanced UV-Vis-NIR and Flexible Photodetector Based on Electrospun ZnO Nanowire Array/PbS Quantum Dots Film Heterostructure. <i>Advanced Science</i> , 2017 , 4, 1600316	13.6	113
70	Achieving Uniform Monolayer Transition Metal Dichalcogenides Film on Silicon Wafer via Silanization Treatment: A Typical Study on WS ₂ . <i>Advanced Materials</i> , 2017 , 29, 1603550	24	60
69	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14893-14897	16.4	68

68	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie</i> , 2017 , 129, 15089-15093	3.6	20
67	Decorating Perovskite Quantum Dots in TiO ₂ Nanotubes Array for Broadband Response Photodetector. <i>Advanced Functional Materials</i> , 2017 , 27, 1703115	15.6	104
66	Controlled Synthesis of Ultrathin 2D In ₂ S ₃ with Broadband Photoresponse by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017 , 27, 1702448	15.6	139
65	Space-Confined Chemical Vapor Deposition Synthesis of Ultrathin HfS ₂ Flakes for Optoelectronic Application. <i>Advanced Functional Materials</i> , 2017 , 27, 1702918	15.6	90
64	Achieving highly uniform two-dimensional PbI ₂ flakes for photodetectors via space confined physical vapor deposition. <i>Science Bulletin</i> , 2017 , 62, 1654-1662	10.6	65
63	Interfacial thermal resistance across graphene/Al ₂ O ₃ and graphene/metal interfaces and post-annealing effects. <i>Carbon</i> , 2017 , 123, 18-25	10.4	9
62	Booming Development of Group IV-VI Semiconductors: Fresh Blood of 2D Family. <i>Advanced Science</i> , 2016 , 3, 1600177	13.6	140
61	Towards wafer-size strictly monolayer graphene on copper via cyclic atmospheric chemical vapor deposition. <i>Carbon</i> , 2016 , 110, 384-389	10.4	9
60	Chemical Vapor Deposition Synthesis of Ultrathin Hexagonal ReSe Flakes for Anisotropic Raman Property and Optoelectronic Application. <i>Advanced Materials</i> , 2016 , 28, 8296-8301	24	165
59	Synthesis of BiS-Au Dumbbell Heteronanostructures with Enhanced Photocatalytic and Photoresponse Properties. <i>Langmuir</i> , 2016 , 32, 11639-11645	4	25
58	Electrical Characteristics: High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire (Adv. Funct. Mater. 5/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 804-804	15.6	3
57	Two-dimensional layered nanomaterials for gas-sensing applications. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 433-451	6.8	248
56	Stacking-Mode-Induced Reactivity Enhancement for Twisted Bilayer Graphene. <i>Chemistry of Materials</i> , 2016 , 28, 1034-1039	9.6	23
55	Self-supported Zn ₃ P ₂ nanowire arrays grafted on carbon fabrics as an advanced integrated anode for flexible lithium ion batteries. <i>Nanoscale</i> , 2016 , 8, 8666-72	7.7	57
54	Scalable production of self-supported WS ₂ /CNFs by electrospinning as the anode for high-performance lithium-ion batteries. <i>Science Bulletin</i> , 2016 , 61, 227-235	10.6	68
53	High performance near-infrared photodetectors based on ultrathin SnS nanobelts grown via physical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2111-2116	7.1	86
52	Detaching graphene from copper substrate by oxidation-assisted water intercalation. <i>Carbon</i> , 2016 , 98, 138-143	10.4	40
51	2D layered group IIIA metal chalcogenides: synthesis, properties and applications in electronics and optoelectronics. <i>CrystEngComm</i> , 2016 , 18, 3968-3984	3.3	132

50	High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire. <i>Advanced Functional Materials</i> , 2016 , 26, 704-712	15.6	136
49	Large-Size Growth of Ultrathin SnS ₂ Nanosheets and High Performance for Phototransistors. <i>Advanced Functional Materials</i> , 2016 , 26, 4405-4413	15.6	216
48	Ternary Oxide Nanocrystals: Universal Laser-Hydrothermal Synthesis, Optoelectronic and Electrochemical Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 5051-5060	15.6	50
47	Large-Area Bilayer ReS ₂ Film/Multilayer ReS ₂ Flakes Synthesized by Chemical Vapor Deposition for High Performance Photodetectors. <i>Advanced Functional Materials</i> , 2016 , 26, 4551-4560	15.6	162
46	In situ fabrication and investigation of nanostructures and nanodevices with a microscope. <i>Chemical Society Reviews</i> , 2016 , 45, 2694-713	58.5	28
45	Electrospun nanowire arrays for electronics and optoelectronics. <i>Science China Materials</i> , 2016 , 59, 200-216	21.6	29
44	Ternary Ta ₂ NiSe ₅ Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , 2016 , 26, 8281-8289	15.6	82
43	Geometry dependent photoconductivity of In ₂ S ₃ kinks synthesized by kinetically controlled thermal deposition. <i>Nano Research</i> , 2016 , 9, 3848-3857	10	19
42	Geometry-induced high performance ultraviolet photodetectors in kinked SnO ₂ nanowires. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8300-8306	7.1	20
41	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> , 2015 , 5, 56293-56298	3.7	5
40	Enhancing the performance of Li ₃ VO ₄ by combining nanotechnology and surface carbon coating for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11253-11260	13	56
39	One-pot synthesis of Zn-doped SnO ₂ nanosheet-based hierarchical architectures as a glycol gas sensor and photocatalyst. <i>CrystEngComm</i> , 2015 , 17, 4394-4401	3.3	38
38	Ultrathin Single-Crystalline Boron Nanosheets for Enhanced Electro-Optical Performances. <i>Advanced Science</i> , 2015 , 2, 1500023	13.6	60
37	Tuning the graphene work function by uniaxial strain. <i>Applied Physics Letters</i> , 2015 , 106, 043106	3.4	19
36	Layered phosphorus-like GeP ₅ : a promising anode candidate with high initial coulombic efficiency and large capacity for lithium ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3629-3636	35.4	143
35	Polar-surface-driven growth of ZnS microspheres with novel optoelectronic properties. <i>NPG Asia Materials</i> , 2015 , 7, e213-e213	10.3	9
34	Grain size control in the fabrication of large single-crystal bilayer graphene structures. <i>Nanoscale</i> , 2015 , 7, 2391-9	7.7	17
33	Photodetectors: Ultrathin SnSe ₂ Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors (Adv. Mater. 48/2015). <i>Advanced Materials</i> , 2015 , 27, 8119-8119	24	6

32	Ultrathin SnSe ₂ Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors. <i>Advanced Materials</i> , 2015 , 27, 8035-41	24	369
31	A Fully Transparent and Flexible Ultraviolet-Visible Photodetector Based on Controlled Electrospun ZnO-CdO Heterojunction Nanofiber Arrays. <i>Advanced Functional Materials</i> , 2015 , 25, 5885-5894	15.6	146
30	Controlled removal of monolayers for bilayer graphene preparation and visualization. <i>RSC Advances</i> , 2015 , 5, 25471-25476	3.7	6
29	Graphene Amplification by Continued Growth on Seed Edges. <i>Chemistry of Materials</i> , 2014 , 26, 4137-4143	3.6	17
28	Graphene-templated growth of hollow Ni ₃ S ₂ nanoparticles with enhanced pseudocapacitive performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19214-19220	13	50
27	Evolution of the Raman spectrum of graphene grown on copper upon oxidation of the substrate. <i>Nano Research</i> , 2014 , 7, 1613-1622	10	45
26	Quasi-one-dimensional graphene superlattices formed on high-index surfaces. <i>Physical Review B</i> , 2014 , 89,	3.3	21
25	CVD growth of large area smooth-edged graphene nanomesh by nanosphere lithography. <i>Scientific Reports</i> , 2013 , 3, 1238	4.9	102
24	Turning off hydrogen to realize seeded growth of subcentimeter single-crystal graphene grains on copper. <i>ACS Nano</i> , 2013 , 7, 9480-8	16.7	200
23	Revealing interface-assisted charge-transfer mechanisms by using silicon nanowires as local probes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3369-73	16.4	9
22	Revealing Interface-Assisted Charge-Transfer Mechanisms by Using Silicon Nanowires as Local Probes. <i>Angewandte Chemie</i> , 2013 , 125, 3453-3457	3.6	2
21	Tuning the properties of graphene using a reversible gas-phase reaction. <i>NPG Asia Materials</i> , 2012 , 4, e31-e31	10.3	14
20	Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts. <i>Angewandte Chemie</i> , 2012 , 124, 12394-12398	3.6	26
19	Building high-throughput molecular junctions using indented graphene point contacts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12228-32	16.4	115
18	Solution-crystallized organic semiconductors with high carrier mobility and air stability. <i>Advanced Materials</i> , 2012 , 24, 5576-80, 5518	24	32
17	Novel optoelectronic devices based on single semiconductor nanowires (nanobelts). <i>Nanoscale Research Letters</i> , 2012 , 7, 218	5	13
16	Self-powered high performance photodetectors based on CdSe nanobelt/graphene Schottky junctions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2863		107
15	Direct optical characterization of graphene growth and domains on growth substrates. <i>Scientific Reports</i> , 2012 , 2, 707	4.9	120

14	Electrochemistry: an efficient way to chemically modify individual monolayers of graphene. <i>Small</i> , 2012 , 8, 1326-30	11	30
13	Understanding charge transfer at PbS-decorated graphene surfaces toward a tunable photosensor. <i>Advanced Materials</i> , 2012 , 24, 2715-20	24	158
12	Organic Semiconductors: Solution-Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability (Adv. Mater. 41/2012). <i>Advanced Materials</i> , 2012 , 24, 5518-5518	24	
11	Multicolor graphene nanoribbon/semiconductor nanowire heterojunction light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11760		49
10	A simple and scalable graphene patterning method and its application in CdSe nanobelt/graphene Schottky junction solar cells. <i>Nanoscale</i> , 2011 , 3, 1477-81	7.7	68
9	TiO ₂ -decorated graphenes as efficient photoswitches with high oxygen sensitivity. <i>Chemical Science</i> , 2011 , 2, 1860	9.4	56
8	Ultrasensitive water-processed monolayer photodetectors. <i>Chemical Science</i> , 2011 , 2, 796	9.4	60
7	Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1269-1276	6.4	17
6	Photoactive gate dielectrics. <i>Advanced Materials</i> , 2010 , 22, 3282-7	24	67
5	High-Performance Langmuir-Blodgett Monolayer Transistors with High Responsivity. <i>Angewandte Chemie</i> , 2010 , 122, 6463-6467	3.6	30
4	High-performance Langmuir-Blodgett monolayer transistors with high responsivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6319-23	16.4	71
3	Chemical functionalization of single-walled carbon nanotube field-effect transistors as switches and sensors. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1101-1116	23.2	86
2	Strain-sensitive ferromagnetic two-dimensional Cr ₂ Te ₃ . <i>Nano Research</i> , 1	10	5
1	Spread of in-plane anisotropy in CsPbBr ₃ /ReS ₂ heterostructures by proximity effect. <i>Journal of Materials Chemistry C</i> ,	7.1	2