

Liang Li

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.

74
papers

5,976
citations

38
h-index

76
g-index

76
ext. papers

6,925
ext. citations

12.5
avg, IF

5.79
L-index

#	Paper	IF	Citations
74	High-performance near-infrared photodetector based on quasi one-dimensional layered (TaSe ₄) ₂ I. <i>Applied Physics Letters</i> , 2021 , 119, 201909	3.4	1
73	In-plane anisotropic 2D CrPS ₄ for promising polarization-sensitive photodetection. <i>Applied Physics Letters</i> , 2021 , 119, 171102	3.4	5
72	2D Cu S /PtS /WSe Double Heterojunction Bipolar Transistor with High Current Gain. <i>Advanced Materials</i> , 2021 , 33, e2106537	24	3
71	2D Silicon-Based Semiconductor Si Te toward Broadband Photodetection. <i>Small</i> , 2021 , 17, e2006496	11	10
70	Broken-Gap PtS/WSe van der Waals Heterojunction with Ultrahigh Reverse Rectification and Fast Photoresponse. <i>ACS Nano</i> , 2021 , 15, 8328-8337	16.7	28
69	In-Plane Anisotropic Thermal Conductivity of Low-Symmetry PdSe ₂ . <i>Sustainability</i> , 2021 , 13, 4155	3.6	5
68	Broadband Photodetection: 2D Silicon-Based Semiconductor Si ₂ Te ₃ toward Broadband Photodetection (Small 13/2021). <i>Small</i> , 2021 , 17, 2170060	11	
67	In-plane anisotropic Raman response of layered In ₂ Te ₅ semiconductor. <i>Applied Physics Letters</i> , 2021 , 118, 182105	3.4	1
66	Thermal Conductivity of Few-Layer PtS ₂ and PtSe ₂ Obtained from Optothermal Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16129-16135	3.8	4
65	2D Ruddlesden-Popper Perovskite with Ordered Phase Distribution for High-Performance Self-Powered Photodetectors. <i>Advanced Materials</i> , 2021 , 33, e2101714	24	17
64	Highly In-Plane Anisotropic 2D PdSe ₂ for Polarized Photodetection with Orientation Selectivity. <i>Advanced Functional Materials</i> , 2021 , 31, 2006774	15.6	47
63	Two-Dimensional Nanostructured Metal Oxide/Sulfide-Based Photoanode for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2021 , 5, 2000412	7.1	10
62	Fast Photothermoelectric Response in CVD-Grown PdSe ₂ Photodetectors with In-Plane Anisotropy. <i>Advanced Functional Materials</i> , 2021 , 31, 2104787	15.6	16
61	A wafer-scale van der Waals dielectric made from an inorganic molecular crystal film. <i>Nature Electronics</i> , 2021 , 4, 906-913	28.4	16
60	Nested Inverse Opal Perovskite toward Superior Flexible and Self-Powered Photodetection Performance. <i>Advanced Materials</i> , 2020 , 32, e1906974	24	36
59	An asymmetric hot carrier tunneling van der Waals heterostructure for multibit optoelectronic memory. <i>Materials Horizons</i> , 2020 , 7, 1331-1340	14.4	19
58	Salt-Assisted Growth of P-type Cu ₉ S ₅ Nanoflakes for P-N Heterojunction Photodetectors with High Responsivity. <i>Advanced Functional Materials</i> , 2020 , 30, 1908382	15.6	21

57	A Self-Powered Photovoltaic Photodetector Based on a Lateral WSe-WSe Homo Junction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44934-44942	9.5	25
56	Chemical Vapor Deposition Growth of High Crystallinity Sb Se Nanowire with Strong Anisotropy for Near-Infrared Photodetectors. <i>Small</i> , 2019 , 15, e1805307	11	54
55	Highly in-plane anisotropic 2D semiconductors E^{AuSe} with multiple superior properties: a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 395501	1.8	4
54	Low-dimensional nanomaterial/Si heterostructure-based photodetectors. <i>Information Materials</i> , 2019 , 1, 140	23.1	38
53	Nonlayered Two-Dimensional Defective Semiconductor E^{GaS} toward Broadband Photodetection. <i>ACS Nano</i> , 2019 , 13, 6297-6307	16.7	48
52	Raman investigation of layered ZrGeTe_4 semiconductor. <i>Applied Physics Letters</i> , 2019 , 114, 172104	3.4	9
51	Emerging in-plane anisotropic two-dimensional materials. <i>Information Materials</i> , 2019 , 1, 54-73	23.1	175
50	$\text{Si/CuIn}_{0.7}\text{Ga}_{0.3}\text{Se}_2$ Core-Shell Heterojunction for Sensitive and Self-Driven UV-Vis-NIR Broadband Photodetector. <i>Advanced Optical Materials</i> , 2019 , 7, 1900023	8.1	16
49	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1904932	15.6	98
48	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019 , 10, 4728	17.4	50
47	Liquid-Alloy-Assisted Growth of 2D Ternary Ga In S toward High-Performance UV Photodetection. <i>Advanced Materials</i> , 2019 , 31, e1806306	24	71
46	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1706771	24	156
45	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
44	Tunneling Diode Based on WSe_2/SnS Heterostructure Incorporating High Detectivity and Responsivity. <i>Advanced Materials</i> , 2018 , 30, 1703286	24	183
43	Self-Limited Epitaxial Growth of Ultrathin Nonlayered CdS Flakes for High-Performance Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1800181	15.6	62
42	Submillimeter 2D Bi_2Se_3 Flakes toward High-Performance Infrared Photodetection at Optical Communication Wavelength. <i>Advanced Functional Materials</i> , 2018 , 28, 1802707	15.6	98
41	Pressure-induced enhancement of optoelectronic properties in PtS 2. <i>Chinese Physics B</i> , 2018 , 27, 066201.2	11	
40	Self-powered photovoltaic photodetector established on lateral monolayer $\text{MoS}_2\text{-WS}_2$ heterostructures. <i>Nano Energy</i> , 2018 , 51, 45-53	17.1	115

39	Multifunctional two-dimensional semiconductors SnP: universal mechanism of layer-dependent electronic phase transition. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 475702	1.8	9
38	Temperature dependence of Raman responses of few-layer PtS. <i>Nanotechnology</i> , 2018 , 29, 505709	3.4	15
37	Highly In-Plane Anisotropic 2D GeAs for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , 2018 , 30, e1804541	24	94
36	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , 2018 , 6, 1800058	8.1	79
35	Few-Layered PtS ₂ Phototransistor on h-BN with High Gain. <i>Advanced Functional Materials</i> , 2017 , 27, 1701911	19.1	133
34	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , 2017 , 11, 10264-10272	16.7	81
33	Ultrathin GaGeTe p-type transistors. <i>Applied Physics Letters</i> , 2017 , 111, 203504	3.4	15
32	Photodetectors based on two-dimensional semiconductors: Progress, opportunity and challenge. <i>Chinese Science Bulletin</i> , 2017 , 62, 3134-3153	2.9	10
31	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. <i>Advanced Science</i> , 2017 , 4, 1700231	13.6	145
30	Quantum Hall effect in black phosphorus two-dimensional electron system. <i>Nature Nanotechnology</i> , 2016 , 11, 593-7	28.7	289
29	Epitaxial Growth and Thermoelectric Measurement of Bi ₂ Te ₃ /Sb Superlattice Nanowires. <i>Chinese Journal of Chemical Physics</i> , 2016 , 29, 365-368	0.9	2
28	Ternary Ta ₂ NiSe ₅ Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , 2016 , 26, 8281-8289	15.6	82
27	Nanoscale ultraviolet photodetectors based on onedimensional metal oxide nanostructures. <i>Nano Research</i> , 2015 , 8, 382-405	10	106
26	Enhancement of Thermoelectric Properties in Bi ₂ Te ₃ Alloy Nanowires by Pulsed Electrodeposition. <i>Energy Technology</i> , 2015 , 3, 825-829	3.5	13
25	Defect-mediated phase transition temperature of VO ₂ (M) nanoparticles with excellent thermochromic performance and low threshold voltage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4520	13	78
24	Thermal conductivity of a single Bi ₂ Te ₃ single-crystalline nanowire. <i>Nanotechnology</i> , 2014 , 25, 415704	3.4	9
23	One-Dimensional Bi-Based Nanostructures for Thermoelectrics. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 237-254	0.3	2
22	One-dimensional inorganic nanostructures: synthesis, field-emission and photodetection. <i>Chemical Society Reviews</i> , 2011 , 40, 2986-3004	58.5	321

21	High-yield synthesis of single-crystalline zinc oxide nanobelts and their applications in novel Schottky solar cells. <i>Chemical Communications</i> , 2011 , 47, 8247-9	5.8	17
20	Semimetal nanowires and their superlattices in anodic alumina membranes. <i>Recent Patents on Nanotechnology</i> , 2010 , 4, 181-93	1.2	
19	Recent Developments in One-Dimensional Inorganic Nanostructures for Photodetectors. <i>Advanced Functional Materials</i> , 2010 , 20, 4233-4248	15.6	277
18	Single-crystalline CdS nanobelts for excellent field-emitters and ultrahigh quantum-efficiency photodetectors. <i>Advanced Materials</i> , 2010 , 22, 3161-5	24	311
17	Electrical transport and high-performance photoconductivity in individual ZrS(2) nanobelts. <i>Advanced Materials</i> , 2010 , 22, 4151-6	24	145
16	Single-crystalline SbSe ₂ nanowires for high-performance field emitters and photodetectors. <i>Advanced Materials</i> , 2010 , 22, 4530-3	24	118
15	Ultrahigh-performance solar-blind photodetectors based on individual single-crystalline In ₂ Te nanobelts. <i>Advanced Materials</i> , 2010 , 22, 5145-9	24	217
14	Template Epitaxial Growth of Thermoelectric Bi/BiSb Superlattice Nanowires by Charge-Controlled Pulse Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K149	3.9	15
13	Crystallinity-Controlled Germanium Nanowire Arrays: Potential Field Emitters. <i>Advanced Functional Materials</i> , 2008 , 18, 1080-1088	15.6	89
12	Fabrication and optical property of single-crystalline InSb nanowire arrays. <i>Journal of Materials Science</i> , 2007 , 42, 2753-2757	4.3	36
11	Layer-by-layer assembly and spontaneous flocculation of oppositely charged oxide and hydroxide nanosheets into inorganic sandwich layered materials. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8000-7	16.4	264
10	Effective deposition potential induced size-dependent orientation growth of Bi-Sb alloy nanowire arrays. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21572-5	3.4	23
9	Pulsed electrodeposition of single-crystalline Bi ₂ Te ₃ nanowire arrays. <i>Nanotechnology</i> , 2006 , 17, 1706-1714	3.4	76
8	Hollow nanoshell of layered double hydroxide. <i>Chemical Communications</i> , 2006 , 3125-7	5.8	152
7	Exfoliating layered double hydroxides in formamide: a method to obtain positively charged nanosheets. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3809		430
6	Conversion of a Bi nanowire array to an array of Bi-Bi ₂ O ₃ core-shell nanowires and Bi ₂ O ₃ nanotubes. <i>Small</i> , 2006 , 2, 548-53	11	201
5	Fabrication and characterization of single-crystalline ZnTe nanowire arrays. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12394-8	3.4	101
4	Positively Charged Nanosheets Derived via Total Delamination of Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2005 , 17, 4386-4391	9.6	444

3	Pulsed Electrodeposition of Large-Area, Ordered Bi _{1-x} Sb _x Nanowire Arrays from Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19380-19383	3.4	4 ¹
2	GeAs ₂ Saturable Absorber for Ultrafast and Ultranarrow Photonic Applications. <i>Advanced Functional Materials</i> , 2112252	15.6	2
1	Ultra-broadband, fast, and polarization-sensitive photoresponse of low-symmetry 2D NdSb ₂ . <i>Nano Research</i> , 1	10	2