

Liang Li

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5536263/liang-li-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Positively Charged Nanosheets Derived via Total Delamination of Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2005 , 17, 4386-4391	9.6	444
73	Exfoliating layered double hydroxides in formamide: a method to obtain positively charged nanosheets. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3809		430
72	One-dimensional inorganic nanostructures: synthesis, field-emission and photodetection. <i>Chemical Society Reviews</i> , 2011 , 40, 2986-3004	58.5	321
71	Single-crystalline CdS nanobelts for excellent field-emitters and ultrahigh quantum-efficiency photodetectors. <i>Advanced Materials</i> , 2010 , 22, 3161-5	24	311
70	Quantum Hall effect in black phosphorus two-dimensional electron system. <i>Nature Nanotechnology</i> , 2016 , 11, 593-7	28.7	289
69	Recent Developments in One-Dimensional Inorganic Nanostructures for Photodetectors. <i>Advanced Functional Materials</i> , 2010 , 20, 4233-4248	15.6	277
68	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
67	Ultrahigh-performance solar-blind photodetectors based on individual single-crystalline In ₂ GeO ₇ nanobelts. <i>Advanced Materials</i> , 2010 , 22, 5145-9	24	217
66	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
65	Tunneling Diode Based on WSe ₂ /SnS Heterostructure Incorporating High Detectivity and Responsivity. <i>Advanced Materials</i> , 2018 , 30, 1703286	24	183
64	Emerging in-plane anisotropic two-dimensional materials. <i>Information Materials</i> , 2019 , 1, 54-73	23.1	175
63	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1706771	24	156
62	Hollow nanoshell of layered double hydroxide. <i>Chemical Communications</i> , 2006 , 3125-7	5.8	152
61	Electrical transport and high-performance photoconductivity in individual ZrS ₂ nanobelts. <i>Advanced Materials</i> , 2010 , 22, 4151-6	24	145
60	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. <i>Advanced Science</i> , 2017 , 4, 1700231	13.6	145
59	Few-Layered PtS ₂ Phototransistor on h-BN with High Gain. <i>Advanced Functional Materials</i> , 2017 , 27, 1701916	19.1	133
58	Single-crystalline Sb ₂ Se ₃ nanowires for high-performance field emitters and photodetectors. <i>Advanced Materials</i> , 2010 , 22, 4530-3	24	118

57	Self-powered photovoltaic photodetector established on lateral monolayer MoS ₂ -WS ₂ heterostructures. <i>Nano Energy</i> , 2018 , 51, 45-53	17.1	115
56	Nanoscale ultraviolet photodetectors based on onedimensional metal oxide nanostructures. <i>Nano Research</i> , 2015 , 8, 382-405	10	106
55	Fabrication and characterization of single-crystalline ZnTe nanowire arrays. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12394-8	3.4	101
54	Submillimeter 2D Bi ₂ Se ₃ Flakes toward High-Performance Infrared Photodetection at Optical Communication Wavelength. <i>Advanced Functional Materials</i> , 2018 , 28, 1802707	15.6	98
53	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1904932	15.6	98
52	Highly In-Plane Anisotropic 2D GeAs for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , 2018 , 30, e1804541	24	94
51	Crystallinity-Controlled Germanium Nanowire Arrays: Potential Field Emitters. <i>Advanced Functional Materials</i> , 2008 , 18, 1080-1088	15.6	89
50	Ternary Ta ₂ NiSe ₅ Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , 2016 , 26, 8281-8289	15.6	82
49	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , 2017 , 11, 10264-10272	16.7	81
48	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , 2018 , 6, 1800058	8.1	79
47	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
46	Pulsed electrodeposition of single-crystalline Bi ₂ Te ₃ nanowire arrays. <i>Nanotechnology</i> , 2006 , 17, 1706-1714	3.4	76
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	Liquid-Alloy-Assisted Growth of 2D Ternary Ga In S toward High-Performance UV Photodetection. <i>Advanced Materials</i> , 2019 , 31, e1806306	24	71
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	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
41	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019 , 10, 4728	17.4	50
40	Nonlayered Two-Dimensional Defective Semiconductor EGaS toward Broadband Photodetection. <i>ACS Nano</i> , 2019 , 13, 6297-6307	16.7	48

39	Highly In-Plane Anisotropic 2D PdSe ₂ for Polarized Photodetection with Orientation Selectivity. <i>Advanced Functional Materials</i> , 2021 , 31, 2006774	15.6	47
38	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	41
37	Low-dimensional nanomaterial/Si heterostructure-based photodetectors. <i>Information Materials</i> , 2019 , 1, 140	23.1	38
36	Nested Inverse Opal Perovskite toward Superior Flexible and Self-Powered Photodetection Performance. <i>Advanced Materials</i> , 2020 , 32, e1906974	24	36
35	Fabrication and optical property of single-crystalline InSb nanowire arrays. <i>Journal of Materials Science</i> , 2007 , 42, 2753-2757	4.3	36
34	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
33	A Self-Powered Photovoltaic Photodetector Based on a Lateral WSe-WSe Homojunction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44934-44942	9.5	25
32	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
31	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
30	An asymmetric hot carrier tunneling van der Waals heterostructure for multibit optoelectronic memory. <i>Materials Horizons</i> , 2020 , 7, 1331-1340	14.4	19
29	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
28	2D Ruddlesden-Popper Perovskite with Ordered Phase Distribution for High-Performance Self-Powered Photodetectors. <i>Advanced Materials</i> , 2021 , 33, e2101714	24	17
27	Si/CuIn _{0.7} Ga _{0.3} 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
26	Fast Photothermoelectric Response in CVD-Grown PdSe ₂ Photodetectors with In-Plane Anisotropy. <i>Advanced Functional Materials</i> , 2021 , 31, 2104787	15.6	16
25	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
24	Ultrathin GaGeTe p-type transistors. <i>Applied Physics Letters</i> , 2017 , 111, 203504	3.4	15
23	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
22	Temperature dependence of Raman responses of few-layer PtS. <i>Nanotechnology</i> , 2018 , 29, 505709	3.4	15

21	Enhancement of Thermoelectric Properties in Bi _{1-x} Sb _x Te Alloy Nanowires by Pulsed Electrodeposition. <i>Energy Technology</i> , 2015 , 3, 825-829	3.5	13
20	Pressure-induced enhancement of optoelectronic properties in PtS ₂ . <i>Chinese Physics B</i> , 2018 , 27, 066201.2	20.2	11
19	Photodetectors based on two-dimensional semiconductors: Progress, opportunity and challenge. <i>Chinese Science Bulletin</i> , 2017 , 62, 3134-3153	2.9	10
18	2D Silicon-Based Semiconductor Si Te toward Broadband Photodetection. <i>Small</i> , 2021 , 17, e2006496	11	10
17	Two-Dimensional Nanostructured Metal Oxide/Sulfide-Based Photoanode for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2021 , 5, 2000412	7.1	10
16	Raman investigation of layered ZrGeTe ₄ semiconductor. <i>Applied Physics Letters</i> , 2019 , 114, 172104	3.4	9
15	Thermal conductivity of a single Bi _{1-x} Sb _x Te single-crystalline nanowire. <i>Nanotechnology</i> , 2014 , 25, 415704	3.4	9
14	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
13	In-plane anisotropic 2D CrPS ₄ for promising polarization-sensitive photodetection. <i>Applied Physics Letters</i> , 2021 , 119, 171102	3.4	5
12	In-Plane Anisotropic Thermal Conductivity of Low-Symmetry PdSe ₂ . <i>Sustainability</i> , 2021 , 13, 4155	3.6	5
11	Highly in-plane anisotropic 2D semiconductors EAuSe with multiple superior properties: a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 395501	1.8	4
10	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
9	2D Cu S /PtS ₂ /WSe ₂ Double Heterojunction Bipolar Transistor with High Current Gain. <i>Advanced Materials</i> , 2021 , 33, e2106537	24	3
8	GeAs ₂ Saturable Absorber for Ultrafast and Ultranarrow Photonic Applications. <i>Advanced Functional Materials</i> , 2112252	15.6	2
7	One-Dimensional Bi-Based Nanostructures for Thermoelectrics. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 237-254	0.3	2
6	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
5	Ultra-broadband, fast, and polarization-sensitive photoresponse of low-symmetry 2D NdSb ₂ . <i>Nano Research</i> , 1	10	2
4	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

- 3 In-plane anisotropic Raman response of layered In₂Te₅ semiconductor. *Applied Physics Letters*, **2021**, 118, 182105 3.4 1
- 2 Semimetal nanowires and their superlattices in anodic alumina membranes. *Recent Patents on Nanotechnology*, **2010**, 4, 181-93 1.2
- 1 Broadband Photodetection: 2D Silicon-Based Semiconductor Si₂Te₃ toward Broadband Photodetection (Small 13/2021). *Small*, **2021**, 17, 2170060 11