Ziyuan Li

List of Publications by Year
in descending order

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Version: 2024-02-01

77 papers	1,322 citations	304743 22 h-index	377865 34 g-index
80 all docs	80 docs citations	80 times ranked	1652 citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and Layerâ€Dependent Exciton Pumping across Atomically Thin Organicâ€“Inorganic Typeâ€I Heterostructures. Advanced Materials, 2018, 30, e1803986.	21.0	79
2	IIIâ€“V Semiconductor Single Nanowire Solar Cells: A Review. Advanced Materials Technologies, 2018, 3, 1800005.	5.8	75
3	Liquidâ€Metal Synthesized Ultrathin SnS Layers for Highâ€Performance Broadband Photodetectors. Advanced Materials, 2020, 32, e2004247.	21.0	66
4	Room temperature GaAsSb single nanowire infrared photodetectors. Nanotechnology, 2015, 26, 445202.	2.6	63
5	Efficiency enhancement of axial junction InP single nanowire solar cells by dielectric coating. Nano Energy, 2016, 28, 106-114.	16.0	58
6	High-Efficiency Monolayer Molybdenum Ditelluride Light-Emitting Diode and Photodetector. ACS Applied Materials & Interfaces, 2018, 10, 43291-43298.	8.0	56
7	Coupling of light from microdisk lasers into plasmonic nano-antennas. Optics Express, 2009, 17, 20878.	3.4	48
8	Broadband Phase-Sensitive Single InP Nanowire Photoconductive Terahertz Detectors. Nano Letters, 2016, 16, 4925-4931.	9.1	46
9	Ultrasensitive Mid-wavelength Infrared Photodetection Based on a Single InAs Nanowire. ACS Nano, 2019, 13, 3492-3499.	14.6	45
10	Review on III-V Semiconductor Single Nanowire-Based Room Temperature Infrared Photodetectors. Materials, 2020, 13, 1400.	2.9	44
11	Spatially Resolved Doping Concentration and Nonradiative Lifetime Profiles in Single Si-Doped InP Nanowires Using Photoluminescence Mapping. Nano Letters, 2015, 15, 3017-3023.	9.1	43
12	Engineering IIIâ€“V Semiconductor Nanowires for Device Applications. Advanced Materials, 2020, 32, e1904359.	21.0	43
13	Giant optical pathlength enhancement in plasmonic thin film solar cells using core-shell nanoparticles. Journal Physics D: Applied Physics, 2018, 51, 295106.	2.8	42
14	Broadband GaAsSb Nanowire Array Photodetectors for Filter-Free Multispectral Imaging. Nano Letters, 2021, 21, 7388-7395.	9.1	36
15	Multiwavelength Single Nanowire InGaAs/InP Quantum Well Light-Emitting Diodes. Nano Letters, 2019, 19, 3821-3829.	9.1	32
16	A plasmonic staircase nano-antenna device with strong electric field enhancement for surface enhanced Raman scattering (SERS) applications. Journal Physics D: Applied Physics, 2012, 45, 305102.	2.8	30
17	Integration of bow-tie plasmonic nano-antennas on tapered fibers. Optics Express, 2017, 25, 8986.	3.4	29
18	Single n⁺-i-n⁺InP nanowires for highly sensitive terahertz detection. Nanotechnology, 2017, 28, 125202.	2.6	26

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19	Radial Growth Evolution of InGaAs/InP Multi-Quantum-Well Nanowires Grown by Selective-Area Metal Organic Vapor-Phase Epitaxy. ACS Nano, 2018, 12, 10374-10382.	14.6	26
20	Reducing Zn diffusion in single axial junction InP nanowire solar cells for improved performance. Progress in Natural Science: Materials International, 2018, 28, 178-182.	4.4	23
21	Highly uniform InGaAs/InP quantum well nanowire array-based light emitting diodes. Nano Energy, 2020, 71, 104576.	16.0	23
22	Titanium Nano-Antenna for High-Power Pulsed Operation. Journal of Lightwave Technology, 2013, 31, 2459-2466.	4.6	22
23	Nanowire Quantum Dot Surface Engineering for High Temperature Single Photon Emission. ACS Nano, 2019, 13, 13492-13500.	14.6	22
24	Axial pâ€n junction design and characterization for InP nanowire array solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 237-244.	8.1	22
25	Surface-States-Modulated High-Performance InAs Nanowire Phototransistor. Journal of Physical Chemistry Letters, 2020, 11, 6413-6419.	4.6	21
26	A New Strategy for Selective Area Growth of Highly Uniform InGaAs/InP Multiple Quantum Well Nanowire Arrays for Optoelectronic Device Applications. Advanced Functional Materials, 2022, 32, 2103057.	14.9	21
27	Ultralow Threshold, Single-Mode InGaAs/GaAs Multiquantum Disk Nanowire Lasers. ACS Nano, 2021, 15, 9126-9133.	14.6	19
28	Sub-Bandgap Luminescence from Doped Polycrystalline and Amorphous Silicon Films and Its Application to Understanding Passivating-Contact Solar Cells. ACS Applied Energy Materials, 2018, 1, 6619-6625.	5.1	18
29	Unexpected benefits of stacking faults on the electronic structure and optical emission in wurtzite GaAs/GaInP core/shell nanowires. Nanoscale, 2019, 11, 9207-9215.	5.6	18
30	Selfâ€Powered InP Nanowire Photodetector for Singleâ€Photon Level Detection at Room Temperature. Advanced Materials, 2021, 33, e2105729.	21.0	18
31	Single nanowire green InGaN/GaN light emitting diodes. Nanotechnology, 2016, 27, 435205.	2.6	16
32	Semiconductor Nanowire Arrays for Highâ€Performance Miniaturized Chemical Sensing. Advanced Functional Materials, 2022, 32, 2107596.	14.9	16
33	Radiation effects on GaAs/AlGaAs core/shell ensemble nanowires and nanowire infrared photodetectors. Nanotechnology, 2017, 28, 125702.	2.6	14
34	Light-Induced Positive and Negative Photoconductances of InAs Nanowires toward Rewritable Nonvolatile Memory. ACS Applied Electronic Materials, 2019, 1, 1825-1831.	4.3	14
35	Large area van der Waals epitaxy of IIâ€“VI CdSe thin films for flexible optoelectronics and full-color imaging. Nano Research, 2022, 15, 368-376.	10.4	14
36	Merging Photonic Wire Lasers and Nanoantennas. Journal of Lightwave Technology, 2011, 29, 2690-2697.	4.6	13

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37	In situ passivation of GaAsSb nanowires for enhanced infrared photoresponse. Nanotechnology, 2020, 31, 244002.	2.6	13
38	Self-frequency-conversion nanowire lasers. Light: Science and Applications, 2022, 11, 120.	16.6	13
39	Driving plasmonic nanoantennas with triangular lasers and slot waveguides. Applied Optics, 2011, 50, 2391.	2.1	11
40	TAILORING THE PROPERTIES OF PHOTONIC NANOJETS BY CHANGING THE MATERIAL AND GEOMETRY OF THE CONCENTRATOR. Progress in Electromagnetics Research Letters, 2014, 48, 7-13.	0.7	11
41	A Highâ€Efficiency Wavelengthâ€Tunable Monolayer LED with Hybrid Continuousâ€Pulsed Injection. Advanced Materials, 2021, 33, e2101375.	21.0	10
42	Charnia-like broadband plasmonic nano-antenna. Journal of Modern Optics, 2013, 60, 790-796.	1.3	7
43	Controlling the lasing modes in random lasers operating in the Anderson localization regime. Optics Express, 2021, 29, 33548.	3.4	7
44	Investigation of lightâ€“matter interaction in single vertical nanowires in ordered nanowire arrays. Nanoscale, 2022, 14, 3527-3536.	5.6	6
45	Design of InAs nanosheet arrays with ultrawide polarization-independent high absorption for infrared photodetection. Applied Physics Letters, 2022, 120, .	3.3	6
46	Controlling the electric field enhancement factor of photonic nanojets by using the magneto-optical effect. Journal of Modern Optics, 2013, 60, 1921-1925.	1.3	5
47	Damage analysis of a perfect broadband absorber by a femtosecond laser. Scientific Reports, 2019, 9, 15880.	3.3	5
48	Broadband and thermally stable tungsten boride absorber. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2744.	2.1	5
49	Zirconium Boride as a High Fluence Saturable Absorber for Q-Switched Fiber Lasers. IEEE Photonics Technology Letters, 2018, 30, 11-14.	2.5	4
50	High Fluence Chromium and Tungsten Bowtie Nano-antennas. Scientific Reports, 2019, 9, 13023.	3.3	4
51	Broadband Photodetectors: Liquidâ€Metal Synthesized Ultrathin SnS Layers for Highâ€Performance Broadband Photodetectors (Adv. Mater. 45/2020). Advanced Materials, 2020, 32, 2070338.	21.0	2
52	COMBINING DIFFERENT IN-PLANE PHOTONIC WIRE LASERS AND COUPLING THE RESULTING FIELD INTO A SINGLE-MODE WAVEGUIDE. Progress in Electromagnetics Research C, 2011, 21, 191-203.	0.9	1
53	Spiral broadband plasmonic nano-antennas. , 2013, , .		1
54	Arrays of recycled power TM polarized nano-antennas. Optics Express, 2013, 21, 16273.	3.4	1

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55	Sierpinski Gasket triangular quantum dot lasers. , 2013, , .		1
56	Selective area epitaxial growth of InP nanowire array for solar cell applications. , 2014, , .		1
57	Room Temperature GaAsSb Array Photodetectors. , 2018, , .		1
58	A Tale of Two Tantalum Borides as Potential Saturable Absorbers for Q-Switched Fiber Lasers. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	1
59	Direct Characterization of Axial p-n Junctions for InP Nanowire Array Solar Cells Using Electron Beam-Induced Current. , 2015, , .		1
60	A New Strategy for Selective Area Growth of Highly Uniform InGaAs/InP Multiple Quantum Well Nanowire Arrays for Optoelectronic Device Applications (Adv. Funct. Mater. 3/2022). Advanced Functional Materials, 2022, 32, .	14.9	1
61	High efficiency coupling of light from photonic wire lasers into Nano-antennas. , 2010, , .		0
62	Coupling of light from microdisk lasers to nano-antennas with nano-tapers. , 2012, , .		0
63	Analysis of interference between two optical beams in a quasi-zero electric permittivity photonic crystal superlattice. Applied Optics, 2013, 52, 854.	1.8	0
64	Zirconium Boride as a High Fluence Saturable Absorber for Q-Switched Fiber Lasers. , 2018, , .		0
65	Electrically Tunable MnO<inf>2</inf> Based Metasurface. , 2018, , .		0
66	Chromium for High Fluence Bowtie Nano-Antennas. , 2018, , .		0
67	Tungsten Refractory Plasmonic Material for High Fluence Bowtie Nano-antenna. , 2018, , .		0
68	Luminescence from poly-Si films and its application to study passivating-contact solar cells. , 2019, , .		0
69	Two Tantalum Borides as Potential Saturable Absorbers for Q-Switched Fiber Lasers. , 2019, , .		0
70	Tungsten Boride Broadband and Thermally Stable Absorber. , 2019, , .		0
71	Diamond Substrate High Fluence Nano-Antennas. , 2019, , .		0
72	Light Absorption in Nanowire Photonic Crystal Slabs and the Physics of Exceptional Points: The Shape Shifter Modes. Sensors, 2021, 21, 5420.	3.8	0

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73	High power titanium Q-switched nano-antennas. , 2013, , .		0
74	Modal domains and selectivity in large square lasers. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2013, 12, 256-268.	0.7	0
75	Broadband Single-Nanowire Photoconductive Terahertz Detectors. , 2017, , .		0
76	GaAs/AlGaAs core-shell ensemble nanowire photodetectors. , 2017, , .		0
77	High-speed InGaAs/InP Quantum Well Nanowire Array Light Emitting Diodes at Telecommunication Wavelength. , 2021, , .		0